

ttaaaaaaaaa ttcagttata gctgcttttg aagagggtttc cattttttatt taaattacta 180  
atggatcaaa gaacaattgt ttattttttc tctttgggtt tagatattaa tgataacctt 240  
gttggaatt ttttttccaa agaaaatatt tttatgaatt gaaatnaatn ttgaatgttt 300  
tntttcctt tcattttacct actcttggca gtgttagggg 340

<210> 624  
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gcctggcctg ataatgtcct ttttaaatgg agttcagact attaacattt aatgtaatta 120  
tcaatatagt tggatttaag tgtactgtct tgctatttgt ttcttattta tgccaacttt 180  
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ttggaacctt tggaacctgc tgtcaacagg tcttacaggg ctgcttgaac cctcataggc 180  
ctaggctttg gtctaaaagg aacattttaa aagttgccct gtaaagtatt ttggtgttca 240  
tttgaccaat tgcattcccca gcttnaaaag caagaagcat ccgtttccct ggaattataa 300  
agaatttggt tcccacccct aaaattttta cagtttnaaa aacttgggtt tcccattgaa 360  
cattcctcct tttttcccca gtttcccca aattcctntt ttttattttt ttggggaaat 420  
aaggtttgcc ccatttttta ancctacact actttingaa atgccccncc cctggaatga 480  
anggaaaggt ncccnattac gnccttnagg ttaattacag ttccctcccc tccccctgc 540  
c 541

<210> 626

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<400> 626

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ggcgatagaa attgaaacct ggcgcaatag atatagtacc gcaagggaaa gatgaaaaat 120
tataaccaag cataacatag caaggactaa cccctatacc ttctgcataa tgaattaact 180
agaaataact ttgcaaggag agccaaagct aagacccccg aaaccagacg nagctacctg 240
agaacagcta aaagagcaca cccgtctatg ttagcaaaat aatgggaaga tttatagggt 300
tgaagcgaca aacctaccga cctgggtgat actggttgtc cnanataaat cttanttcac 360
tttaaatttg nccacagaac ctctnaatcc cttgttaatt taatggtatc caaaaaagaa 420
cagctcttgg gacctaaagaa aaaacttggt naaaaattaa aatttacacc atgtagctnn 480
nac 483
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actcaggaca gagtggactc tgcctgtgat ggggtggnc ncctgctggc cccctccac 180  
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catgaaggan nagggaagga agatgagcta agatgaagat gaagaaagaa agatgatgat 120  
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<211> 252

<212> DNA

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attatgactg aacgcctctn agtcagaatc ccgcccaggc ggaacgatnc ggcnncgccg 180  
cngatcctcg gttggcctct gatatccggt ccccgccctg tccccgccgg cggggcgggg 240  
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ccacaccccc acgggaaaca gcagtgatta accttttagca ataaacgaaa gtttaactaa 180  
gctatactaa ccccagggtt ggtcaatttc gtgccagcca ccgcggtcac acgattaacc 240  
caagtcaata naagccggcg taaagagtgt tttagatcac cccctcccca ataaagctaa 300  
aactcacctg agttgtaaaa aactccagtt gacacaaaat agactacgaa agtggcttta 360  
acatatctga acacacaata gctaagacct aaactgggat tagatacccc actatgctta 420  
gccctaaacc tcaacagtta aatcaacaaa actgctcgcc acaacactac gagccacagc 480  
ttanaactca aaggaactgg cgggtgcttca tatccctcta aaaagaanct gttctgttat 540  
cgataaacc cgatcaanct cccactctt gctcacctat ntccaaaaaa aaaaaaaaaa 600  
ctcanggggg gcnggggtcc 619

<210> 631  
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<400> 631

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ctagcatgan gcctgnagtt ccggtttcat gcatgaaatt gnttntggag agttttgtaa 180
gttgtaaagc caattactgg cttttnacat                                210
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<210> 632

<211> 359

<212> DNA

<213> Homo sapiens

<400> 632

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gcctcaaggc tgccatctgt cttgtagggc ctggccttgt gggcaggggg cagtcctgtg 120
ccttgtagggc cctcagcctc tgagggcaga gatgctgtca gtgccgcagg gtaagggacg 180
agtcttctgg aaggctctgc catggacatt tgcctctggg ctcagaggcc ccaccctgcc 240
ccacacctgc ccctaatac tgcagtgtcc agcccagtgt tgaacagatt gtagcgttct 300
gtctcattac gagcaaataa atagactttc atttgaaaaa aaaaaaaaaa aaaaaaaag 359
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<212> DNA

<213> Homo sapiens

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ttagctcccg gtgcaggtga gaaccgccc ggaggaagaa ggaaggcgcg ggccggggat 180  
taggagacgg aggcggactc ggagccaggg aaccaggggt ncnggctaga gctggagtcg 240  
tgagcncgcg ccgcncgcgc tctgggagga ccgcgagatg cccgtnccta agcagctggg 300  
ccccgcgtca cccaagaanc ggnctgat 328

<210> 634  
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tgggcccttg aggttcccgg ccggagagtg cctctcccct ctgccatcca cgtcaggtct 180  
ttggtggggg gaccccaaag ccattctggg aagggtcca gagtccagcc gtccagctgc 240  
tcctttccca gtttgatttc aataaatctg tccactcccc tttgtgggg gtgaacgttt 300  
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<212> DNA  
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tgggggcaca cagcgggggg cgccaggttt tccttgctcc ccagctgctc tgcccccttt 180  
ccccttcttc cctgactnca ggccctgaacc ngccccgtgn ctgtnaataa atctttgtga 240  
aattaaaaaa aaaaaaaaaa aaaactcggg gggggggcccgtaccaantt gggccctt 298

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aaagatgcgc canccctgnc ccccggcttc ccctctntcc gccacagaac ccagttttct 180  
agaccagggg gacgggcacc catcactccg caggcgaaat naaagccccc ctgccccggc 240  
cctaaacccc tgtgncctcc ttcccatgg ttcccccag agccagttac aaccctgncc 300  
cgggccttaa ccccatggc ttcttttctg tggttttccc ccagaggcca gttagtcccc 360  
aactngnaaa nccgtttggg ntcccatn aaaaaaaatt ttggtttcat tttnaaaaaa 420  
aaaaggggag gagggggggg gcccgggtaa ccatttgggc ttaagtng tgnnttttaa 480  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<222> (277)  
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<222> (286)  
<223> n equals a,t,g, or c

<220>  
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<222> (309)  
<223> n equals a,t,g, or c

<220>  
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<222> (321)  
<223> n equals a,t,g, or c

<400> 638  
ccgnagctgg gtatctnaaaa tctccttttna tccagccact gcccaaagcc atctncctgc 60  
ctactgggatg cttacagtna ctgtgggatac ggggggttccc tttcccccatt nagtgacatg 120  
tcctctctgc ttgngtaaaa cnattctnng gaggacactt ttccaataa actctttccc 180  
cagctgatta gtgtctaagg aatganccaa tacttgntgt cccttttcct tggactatta 240  
acaattgcct gggaggntta gcaagaggaa gcctgtntgt aatttnattt caaaaaggca 300  
aaatagagng ttttacagtc ntaggggaat t 331

<210> 639  
<211> 444  
<212> DNA

<213> Homo sapiens

<220>

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<222> (235)

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<220>

<221> misc feature

<222> (236)

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<220>

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<222> (237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 639

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ctccccgtac cgccgcgcgc cccgccaaac ctgcgcccc agctacaccc ggagcgccga 120
cctccccagc agaacaccgc ctggtgaaga cctgctggag ctgtcgcgtg ctttctgggt 180
tggggctgat gggggcgggc gggtagtgt actgggtggc acggaagccc atgannntgg 240
gatacccccc gagtccatgg accattacgc agatgggtcat cggcctcagt gagaatcaag 300
gcattgccac ctgggggtatc gttgtcatgg cagaccccaa aggggaaggcc taaccgcgtt 360
gtttgaaagt accaccagtg aatctgtctt ctgtctctgt ccctttcccc gtgacacaca 420
gagcangcat ggaatttaat ggggt                                     444
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<210> 640

<211> 598

<212> DNA

<213> Homo sapiens

<220>

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<222> (205)

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<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<220>

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<222> (469)

<223> n equals a,t,g, or c

<220>  
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<222> (484)  
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<220>  
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<222> (518)  
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<220>  
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<223> n equals a,t,g, or c

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<220>  
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<222> (557)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (568)  
<223> n equals a,t,g, or c

<400> 640  
gacccactcc accttactac cagacaacct tagccaaacc atttacccaa ataaagtata 60  
ggcgatagaa attgaaacct ggcgcaatag atatagtacc gcaagggaaa gatgaaaaat 120  
tataaccaag cataatatag caaggactaa cccctatacc ttctgcataa tgaattaaact 180  
agaaataact ttgcaaggag agccnaagggt taagaccccc gaaaccagac gagctacct 240  
agaacagcta aaagagcaca cccgtctatg tagcaaaata gtgggaagat ttataggtag 300  
aggcgacaaa cctaccgagc ctggtgatag ctggttggtcc aagatagaat cttagttaa 360  
ctttaaatgt gccacagAAC cctctaaatc cccttgnaaa tttactgtga gtccaaagag 420  
gaacagctct ttggacacta ggaaaaaacc ttgtagagag aggaaaaant tacaccata 480  
gtangcctaa aagcagcacc aattaagaaa ggggtcaantn acaccatact aaaatccaac 540  
ctntactgac tctacancca ttggccantt tcctttaaac caggggtatc cgaacttc 598

<210> 641  
<211> 466  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (17)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<220>

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<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<400> 641

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caacctccga gcagtacatg ctaagacttc accagtcaaa gcgaactact atactcaatt 120
gatccaataa cttgaccaac ggaacaagtt accctagga taacagcgca atcctattct 180
agagtccata tcaacaatag ggtttacgac ctcgatgttg gatcaggaca tcccgatggt 240
gcagccgcta ttaaaggntc gtttggtcaa cgattaaagn cctacgtgat ctgagttcag 300
accggagtaa tcanggcggg ttctatctac ttcaaantct tcctgtacga aaggacaaga 360
gaaataaggc tacttnacaa agcgccttcc ccgtaatgat atcatcttaa cttagtatta 420
taccacacc cacccaagaa canggggttg taagaaaaaa aaannn 466
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<210> 642

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

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<222> (127)  
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<220>  
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<222> (130)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (134)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (140)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (143)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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<222> (193)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (238)  
<223> n equals a,t,g, or c

<220>  
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<222> (309)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (327)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (424)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (491)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (492)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (497)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (532)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (543)  
<223> n equals a,t,g, or c

<400> 642  
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cacttgctat aagtttttta attaacaatca ctagtgcac taataaaatt aacttnttag 120  
aangcangan gtgnttgtn gtnacaaatn cagaaagtga actgcagtgc tagnaatacac 180  
atgttaatac tgnntttctt ctatctgtag ttagtacagg atgaatttaa atgtgctntt 240  
cctgagagac aaggaagact tgggtatttc ccaaacag taaaatctt aaatgtgcac 300  
caagagcang aggatcaact ttaggnat tgatgatctg taaagacaac aaatcccttt 360  
ttttttctca attgacttaa ctgcatgagt tctggtttat ctaccttaa agcaaactctg 420  
cagngttcca aagactttgg tatggattaa gcgctgccag taacaaaatg aagtctcaaa 480  
acagagctca nntgcanaaa agcatatttt ctgcggttct ggactgcact gntgccttgc 540  
ctnacataga cactcagaca ccctacaaa cacag 575

<210> 643  
<211> 492  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (40)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (125)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (310)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (461)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (492)  
<223> n equals a,t,g, or c

<400> 643  
gaccttctgc ataatgaatt aactagaaat aactttgcan ggagagccaa agctaagacc 60  
cccgaaacca gacgagctac ctaagaacag ctaaaagagc acacccgtct atgtagcata 120  
atagngggaa gatttatagg tagaggcgac aaacctaccg agcctgggtga tagctgggtg 180  
tccaagatag aatcttagtt caactttaaa ttgcccaca gaacctcta aatccccctg 240  
taaatttaac tgtagtcca aagaggaaca gctctttgga cactaggaaa aaaccttgta 300  
gagagagtan aaaatttaac acccatagta ggcctaaaag cagccaccaa ttaagaaagc 360  
gtcaagctca acacccacta cctaaaaaat cccaaacata taactgaact cctacacca 420  
attggaccaa tctatcaccc tatagaagaa ctaatggtag nataagtaac atgaaaacat 480  
tctccttcgc an 492

<210> 644  
<211> 68  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (41)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (58)  
<223> n equals a,t,g, or c

<400> 644  
gatacntcan tgggaacagg gcccatggaa atgtacagga ntttccctat tttggtgntc 60  
agcttgaa 68

<210> 645  
<211> 488  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (265)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (290)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (302)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (336)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (342)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (365)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<400> 645

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ggcacagcgc tcgtccacgg tcttctgcat cactgggtata cacactcggt agcgtccatt 60
tcttatttaa ttagaatgga taagatgatg ttaaatgcct tggtttgatt tctagtatct 120
attgtgttgg ctttacaaat aattttttgc agtcttttgc tgtgctgtta cattactgta 180
tgtataaatt atgaaggacc tggaaataag gtataaggat cttttgtaaa tggagacaca 240
tacaaaaaaaa atctttgaat ggttnaatag ggatggaatg gggaaagtgn ttttggaaaag 300
anattcccat tttgccgggg agactatttg aagtgnccat cnttgtccca aacaaggtaa 360
attntttttt gttaaagtgcc aagtnccggc aggcagaagg aaccgtttac agtgtgattn 420
aagaaaggga aaccgtgccc tttttagcct ccaaacccaa ttgaccataa tttacaggcc 480
ccggtttg                                     488
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<210> 646

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<400> 646

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ggatgttttt atattacatg aatttaataa taaactaaac ttttttttgt ctcccgttat 60
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tgaaaagtac caaagcttct ttctgttggt ttgatttta ctataggggt ttgcttttt 120  
ctagagatac ttttcattta acagcttttg ttaagtgtca ggctgcactt tgctccatat 180  
aattattggt ttcagatttc aacttgatg tgtttgcttc ttaaagcatt ggtgaaatca 240  
catattttat attcagcata aaggagaata aattccagaa aacacannan aaaaaanaaa 300  
an 302

<210> 647  
<211> 137  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (112)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (114)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (132)  
<223> n equals a,t,g, or c

<400> 647  
gggcgggggg gcntnecccg aggggtctc gcttctggcg ccaagcgccc ggtcgcgcg 60  
cgcccgggcg ctaccgctc cggggacagt gccaggtggg gagtatgact gngnngnaac 120  
acctgttaaa cnggaac 137



<210> 648  
<211> 432  
<212> DNA  
<213> Homo sapiens

<400> 648  
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cgcgcgcgac gccatcctgg atgcgctgga gaacctgacc gccgaggagc tcaagaagtt 120  
caagctgaag ctgctgtcgg tgccgctgcg cgagggtac gggcgcatcc cgcggggccc 180  
gctgctgtcc atggacgcct tggacctcac cgacaagctg gtcagcttct acctggagac 240  
ctacggcgcc gagctcaccg ctaacgtgct gcgcgacatg ggctgcagg agatggccgg 300  
gcagctgcag gcggccacgc accagggctc tggagccgcg ccaactggat ccaggcccct 360  
cctcagtcgg cagccaagcc aagcctgcac tttaatagac cagcaccggg cttcggtatc 420  
gcgaaggtca aa 432

<210> 649  
<211> 544  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (395)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (438)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (459)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (505)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (519)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (531)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<400> 649

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ctcctgcctc ttctcagggg acctgctctt cctctctggc tgtgggcgga cctttgaggg 60
caatgcagag accatgctga gctcactgga cactgtgctg gggctagggg atgacaccct 120
tctgtggcct caagtgtgat gccttacaaa agcaccactc agatgggcag ctggactctg 180
gtgtcctgag actctgccct cttcccacag cctccctgcc ccacccatcc ctgcaaagcc 240
atttttcaga cagagccatt cctaagaaca ctgaagggtt ggaatgctgg ctggccactc 300
tctgcctcag tggcctccct aaagcctgga agaaggaggg tcctgattgc caaggaaacc 360
tcctcattgg gctaaggaga cactggagtc tggantgtgg agccccacag tcttgcaggt 420
caaatgctct ccttgcanat ctggcctggt tgtaaccant gggctctggc tctgccctgg 480
gggcaaaagg ggccctcctt gccangggag aaaagccang gtctcttttg ncgatggtgn 540
aatc 544
```

<210> 650

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (234)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<400> 650

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ctccacctta ctaccagaca accttaacca aaccatttac ccaaataaag tataggcgat 60
agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120
caagcataat atagcaagga ctaaccctta taccttctgc ataatgaatt aactagaaat 180
aactttgcaa ggaagagcca aagctaagac ccccgaaacc agacgagcta cctnagaaca 240
gcttaaagag cacaccctc tatttttgcc anaatagtgg gaaagattta taggtttgaa 300
ggcgaacaaa cctaccgagc ctggttgatt agcttgtttg tcccaagatt agaattctta 360
tttcccactt ttnattttt gccccaccag aanccctcct ttttaa 406
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<210> 651

<211> 444  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (196)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (237)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (275)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (299)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (313)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (322)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (388)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (412)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<400> 651

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ggaaagatga aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg 60
cataatgaat taactagaaa taactttgca agggagagcc aaagctaaga ccccgaaac 120
cagacgagct acctaagaaa cagctaaaag agcacaccg tctatgtagc aaaatagtgg 180
gaagatttat aggtanaggc gacaaaacct ccgagcctgg tgatagctgg tttccnaag 240
aatagaatct tagttcaact ttaaatttgc ccacngaacc ctctaaatcc cccttggttna 300
atttaactgt ttngtcccaa anaaggaaca gtccttttg ggaccctagg aaaaaacctt 360
nttaaaaaaa agtttaaaaa attttacncc ccttggttgg ccttaaaacc cccccccan 420
ttaaaaaagg tttcaaactc ccan                                     444
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<210> 652

<211> 69

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

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<220>

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<400> 652

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tatggtttt                                     69
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<400> 653

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atcattatgt aaaagaaaat atatttttagc ccctaaaatt aggaagaatg taatctcaga 180
ataaagggttg tcattttaagt tgaataaata tatagcttta tgaaaaacat anaanaaaan 240
aaaaaaaaaa aangccccga aaggaccntn ttaancaaaa ccnnattgaa aaggcttgga 300
aaaacaaagn cgnttgaaag ctgnttccag taaaccaaac caanccagta nngnggggca 360
attngtngcc ttancagtac ccantcaaaa aanagnntt tgggaaaagg gggaaanaan 420
agгнаатcng aancttaagc ttanactttt gggaaanatt cccccttgga aattganaag 480
ttttttgggg aaaaggnaaa aggnacaacc ttnttgaaaa tttanggggg gnattaaact 540
taaatttgcc taattggggg gaaccccntt taaaaaaaaa ttggacttgg ngactaaagt 600
tgcantgaaa ttttttnccc ttaaaaaaagg ggccttggtta cccttnagg 649
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<210> 654

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<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (343)

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<220>

<221> misc feature

<222> (433)

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<221> misc feature

<222> (455)

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<222> (590)  
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<220>  
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aaccacttga ccttgaccac catgttgctg cccacagact cccacatgct ctogatgcgg 120  
ccgatgtagg ggaggttggg ccgcccagct gacaggaaga cggcacagtc cccgacacgc 180  
agggtctcct cgccccgcac gatggccttg taaaacagct tccgggcctt ccccttcatg 240  
ccacgccgct ntgggggaca tgggcagggt ggctctgaaa agccggggggg ctgtgggggac 300  
agattgcggc caggaagcat ggaaggtgtg gtgtgggtgt gantgtgaat ctgaatgtga 360  
gtgtgcaggg cgcccacaag ggcaggaagc cgcagcaccg cggcttaagg ccatggcagc 420  
catggatctg gancaagggc cacgcctcca cgganccgc acatggaatc atgactctgg 480  
acactggatc tggggacagg gacatgtgga caagacnttc ancacagtgt tttttacgaa 540  
ggcggaagaa ccacgaatgg ncccccatgc gcccccaac aattgccctn gnttaaga 598

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cctgcctttt actttcgtgt ggatatgtga agcattgggt cggaactag ctgtagaaca 120  
caactaaaaa ctcatgtctt ttttcacaga ataatgtgcc agttttttgt agcaatgata 180  
tttctcttgg aaagccagaa atgctttgta ccagagcacc tccaaactgc attgagaaaa 240  
aattcccaga accatcccct ttttccattt ttatattatt tataaagaaa gattaaanct 300  
gttttgacta tnttacagcc ctggaattta ctacctccct gtttctntct ccccgaaaaa 360  
aatgaaacca acgattgggt tcctttgaat tcccgttccc ncctcccgtt atttnnaaaa 420  
tccccccctt ntt 433

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<212> DNA  
<213> Homo sapiens

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<222> (428)  
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acgacagcac gtgttctttt tcactagtag aagtgcggtt gggttcatgt tggggggggg 120  
ggngccatth ttttnntggt tcagtggaga gcaaaatgaa taacaaagcg ggctcctttt 180  
tctggaacct tagacaattc agtacattag tttcaacaag cagaactatg aggctatggt 240  
gtttgggact ttgcaaacca aaaatagttc cattcaaact ggaacatttt gaaataactt 300  
tcataacaga atgcaatcaa cggatgatca ttgagngagc gcttgaggn tgccntcatt 360  
tttgaaatca gatgttggcc ttgcaaacaa agggncataa agcactccaa cagnccctta 420  
gaaattgnaa agacnacctt tatgctaaaa 450

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<212> DNA  
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<222> (412)  
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<220>  
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<222> (427)  
<223> n equals a,t,g, or c

<220>  
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<222> (433)  
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tgaggatcac ctacatagan cgaaaacaga aaaaaacccc gaatcccatt actttgacag 120  
tgtttttaga cctgtgttac taataaaaaag atgaatgtcc tgaaaagggg gttgggaggg 180  
tggttcaaca aagaaacaaa gatgttatgg tgtttagatt tatgggtgtt aaaaatgtca 240  
tctcaagtca agtcactggg ctgtttgcat ttgatacatt tttgtactaa ctagcattgt 300  
aaaattatatt catgattaga aattacctgt ggatatttgt ataaaagtgt ggaataattt 360  
tttataaaaag ggtccatggg tcgtaaccg ccttgtatat ggggagccaa cncccaaatt 420  
ataatgnccc ccna 434

<210> 658  
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<222> (383)

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<222> (392)

<223> n equals a,t,g, or c

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<222> (395)

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<400> 658

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gacagtctca gggacaccat gtagagaatt ttggtctcga ttcagaaaag agaaagagcc 120  
agtggttggt gagacagtag aagagaaaaa ggaacctatc ctagtgtgtc cacctttacg 180  
aagccgagca tacacaccac ctgaagatct ccagagtcgt ttggaatctt acgttaaaga 240  
agtttttggt tcatctcttc ctagtaattg gcaagacatc tccctggaag atagtcgtct 300  
aaagtccaat cttctggctc atttagctga tgacttgggt catgtagtcc ctaaactccn 360  
gactccacca gatgtgnagg gtnagagatg tncnnga 397

<210> 659  
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<212> DNA  
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<222> (94)  
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<220>  
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<220>  
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<400> 659

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ctctagtctg gcacggtgaa gagacatgan aggngtanaa taagtgggag gcccccggcg 120  
cccccccggn gtccccgcga ggggccccggn gcggggg 156

<210> 660

<211> 276

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (255)

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<220>

<221> misc feature

<222> (258)

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<222> (261)

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<221> misc feature

<222> (267)

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gaggaaccgc aggttcagac atttggtgta tgtgcttggc tgaggagcca atggggcgaa 120  
gctaccatct gtgggattat gactgaacgc ctctaagtca gaatccccgcc caggcggaac 180  
gatacggcag cgccgaggag cctcggttgg cctcggatag ccggtcccc cgtgtcccc 240  
gncggcgggc agcncncnt ntacgangcc caccgc 276

<210> 661

<211> 275

<212> DNA

<213> Homo sapiens

<220>

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<220>  
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<220>  
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agggtcagac atttggtgta tgtgcttggc tgaggagcca atggggcgaa gctaccatct 120  
gtgggattat gactgaacgc ctctaagtca gaatcccgcc caggcggaac gatacggcag 180  
cgccgnggag cctcggatgg ctcggatagc cggtcccccg cctgnccccg ccggcgggcc 240  
gccccccctn cacgcgccnc gcgcgcgcgg gaaag 275

<210> 662  
<211> 506  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (69)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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<220>  
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<222> (383)  
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<220>  
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<222> (432)  
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<220>  
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<222> (445)  
<223> n equals a,t,g, or c

<220>  
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<220>

<221> misc feature

<222> (481)

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<220>

<221> misc feature

<222> (487)

<223> n equals a,t,g, or c

<400> 662

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aatgcttana aaaagcttga taaaccactg ggctaagtag acagagggag aggctagcag 120
tatttttaaa ttggtttcta aattttttat agcttgatgg tagataacac atttgcttca 180
atnaaggtaa nccggaaaaa acaaatcctc aaaaagacct ctcaattaga attcttaaat 240
gacaatgttt tctttatcat atatttgaga gattgattta aagaaaaata tgcttgacta 300
tctgaaataa tattttaacc ctatcataaa atctctgcct ggtanaacag ctgactgtgg 360
aanggtaaaa tgcagagaac cantcattgg atctcccttc tctactttgt tactgaaatc 420
ttgaacctgt anaacaatta cttancactg gggttccttt cctaanggga aaataatact 480
naacacntgc agagtaattt ttaaaa 506
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<210> 663

<211> 550

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (480)

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<222> (501)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<400> 663

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ccattttaccc aaataaagta taggcgatag aaattgaaac ctggcgcaat agatatagta 120
ccgcaaggga aagatgaaaa attatagcca agcataatat agcaaggact aacccttata 180
ccttctgcat aatgaattaa ctagaaataa ctttgcaagg agagccaaag ctaagacccc 240
cgaaaccaga cgagctacct aagaacagct aaaagagcac acccgtctat gtagcaaaat 300
agtgggaaga tttataggta gaggcgacaa acctaccgag cctggtgata gctgggttgt 360
ccaagataga atcttaagtt caactttaaa tttgccacag aaccctctaa atccccctgn 420
aaatttaact ggtagtccca agaggaacag ctctttggac actaggaaaa aaccttgtn 480
agagagtaaa aaaattaaca nccatagtan gcctaaaagc agcaccanta anaaagcgg 540
caagtcaca 550
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<210> 664

<211> 542

<212> DNA

<213> Homo sapiens

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<222> (499)

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<222> (504)

<223> n equals a,t,g, or c

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<222> (514)

<223> n equals a,t,g, or c

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<400> 664

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tggtgatagc tggttgtcca agatagaatc ttagttcaac tttaaatttg cccacagaac 120
cctctaaatc cccttgtaaa tttaactgtt agtccaaaga ggaacagctc tttggacact 180
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aggaaaaaac cttgtagaga gagtaaaaaa ttttaacaccc atagtagggcc taaaagcagc 240  
caccaattaa gaaagcggtc aagctcaaca cccactacct aaaaaatcca acatataact 300  
gaactcctac acccaattgg accaatctat caccctatag aagaactaat gttagtataa 360  
gtaacatgaa aacattctcc tccgcataag cctgcgtcag attaaaacac tgaactgaca 420  
attaacagcc caatatctac aatcaaccaa caagtcatta ttaccctcac tgtcaaccca 480  
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<210> 665

<211> 712

<212> DNA

<213> Homo sapiens

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<222> (692)

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<400> 665

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gggtcagagg aaaaaacttt actatgacac ggactatggt tccaagtccc gaggccggca 120
gagtcacacag gaggcagagg aggaggaaag agaggaggag gaggaggcac agatcattca 180
gcggcgcccta gccaagcgc tgcaagagga tgattttggt gtcgcctggg ttgaggcctt 240
tgcaaaacca gtgcctcagg tagatgaggc tgagacacgg gtcgtgaagg atttggtctaa 300
aggttcagtn gaaagaaaaa cctnaaaatg ttgcaaaagg aatcaccaga actcttgagg 360
cttatagaan accttgaaag tcaagttgac agaagttaag gatgagctgg agccattggt 420
agaagttgnt nggaacaagg ggatcattcc acccggaaaa aggaagccaa tactttgagg 480
accaagtaca acctctactt gaattaattg ctcgacatc agttnttatt tgatcctgaa 540
agctaggana gtcccagcac atggacatct tgatcatagaa aggcttggtc ctaccgaaan 600
ttgatcaaca agctgtccgt tgggatnaaa actgncctaa aaatcgcatn tgttgcactt 660
aggttatctt taaagaagac tgtttcnaag cnaatcacca agccaaacca ag 712
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<210> 666

<211> 381

<212> DNA

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tatatcagtc ttcccatcaa tattaattat taaatatttt agaatttttt tatagttggt 180  
atttaaaaaa aaaaaaaaaa agggcggccg ctctagagga tccctcgagg ggcccaagct 240  
ttacgcgtgc atgcgacgct catagctctc tccctatagt gagtcgtatt attaagctag 300

gcactggccg tgcgggtttac aacgtccgtg gactgggggag atcngctagc ttgggggncct 360  
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<210> 667

<211> 437

<212> DNA

<213> Homo sapiens

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<220>

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<222> (371)

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<222> (392)



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<222> (403)

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<222> (408)

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<400> 667

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gagctccaca gcccaccctg tggcccccctg cttggccttg cctggcctgc ccggccccag 180
ccttccaatg ctgctgcacg tcctcatttt ccttttttgt cccctcctgc cccctctggc 240
tgttctgcct ttgggcctca nccccagctg cctgaatttg ggcaagggtc tttctctgtg 300
gncttcaagc tcanccecaa gggttcttga accngggctc ttcccaacgg gcccaaccct 360
aacttaaaaa ntngaacccc tggttttcaa antctttctt aantggtnaa aaaccccaat 420
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<210> 668

<211> 365

<212> DNA

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<222> (172)

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aaaatggaca ctgtgcccag cccggacctt gggcagccca ggccgggggtg gngcatgggc 180  
ctgggccacc ttctcttcct ttgctgagge ctccagcttt caggcaggcc aaggccttnt 240  
tennccccac ccgccctccc cagggggcct cgggagctca ggtgggcccc agtttcaatc 300  
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tntgg 365

<210> 669  
<211> 474  
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agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120  
caagcataat atagcaagga ctaaccacctta taccttctgc ataatgaatt aactagaaat 180  
aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag 240  
ctaaaagagc acaccgtct atgtagcaaa atagtgggaa gatttatagg tagaggcgac 300  
aaacctaccg agcctggtga tagctggttg tccaagatag aatcttagtt caactttaaa 360  
tttgcccaca gaacctccta aatccccttg ttaatttaac ttgtnagtcc aaagaagaac 420  
agctcttttg acactaagaa aaaaccttgt aganananta aaaaatttaa cncc 474

<210> 670  
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<212> DNA  
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ccaaaccatt tacccaaata aagtatangc gatacaaatt gaaacctgnc ncaatacata 180  
tactaccncc agggaaacat gaaaaattat naccnanent aatatanena ggactaaccc 240  
ctataccttc tgcntaatga attaaactaca aataactttg cnacganagc ccaagctaan 300  
accnccaaa ccncacanct acctnanaac anctnnnaga acnccccntc tatgtaccna 360  
ntactgngaa nattatacgt aaaggnacca acctaccnaa cctgntgata ctgggtgtcc 420  
acataaatct tattcccttt naatttgccc ccaaacctct taatccc 467

<210> 671  
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<212> DNA  
<213> Homo sapiens

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<222> (316)  
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taagaaagac cctaaaatgg atatagaagt gtgtgtgtat ccataaaatg catatgtaaa 120  
tttttttttg tttttaagca ttcacccaaa caaaaaaatc acaggtaaac ccatgtttct 180  
gagatgccat tattccaagc aaaataagag ataatccctt caagttaaat tgaaaatfff 240  
cctgaaacca tacatttcaa gtgaaataag taattctaga tagggcaatt tnaattggat 300  
aatttttaaag tgtctnttat tgcagtgggt tatttgcaaa ttcctaaaag ggaaaatfff 360

<210> 672  
<211> 237  
<212> DNA  
<213> Homo sapiens

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agncagccag gtttncctggg ggccaggctg ggtgtcctca caggagtagg gnetacaccc 120  
aattccaaaa gcctgagaaa gagagaagtg gaggggggagg cgagtttntn aataaaggct 180



cccatcaggt caaaaaaaaa aaaaaaaaaan ttnggggggg gccccgnncc caattng 237

<210> 673

<211> 429

<212> DNA

<213> Homo sapiens

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<222> (427)

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<222> (429)

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gtggctcgtt ccagacctca gaagcaccag aatacgttta gcttcaaaaa tgacaagttc 120  
gataaaagtg tgcagaccaa gaaaattaat gcaaaacttc atgatggagt atgtcagcgc 180  
tgtaaagaag ttcttgagtg gcgtgtaaaa tacagcaa atcaaaaccatt atcaaaaccn 240  
aaaaagtgtg ttaaattgtt acaaaagaca gtgaaggatt cttatcacgt aatgtgcagg 300  
ccatgtgccc tgtgaacttg aagtttgccg aaaatggttg aagaaaggag accttgtatt 360  
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aggggnntn 429

<210> 674

<211> 134

<212> DNA

<213> Homo sapiens

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<220>  
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agctcaggcn tgtccagcta caccgccaat cactctgtgg ccttcagcaa gtggcatgag 120  
cagncgntgg agca 134

<210> 675  
<211> 274  
<212> DNA  
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<223> n equals a,t,g, or c

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aatatcacag acaccnctna cacaaggaat ataaaancca ccaccctnca gcctggggaga 120  
acgtcgtnga gaacctacat ctatacanga ttttaaaaat gaagctgggc gtggtggtac 180  
acacctgtgg tcccagctta ctagggnnggc tgcagccagg tntgnacgct ccaanccagg 240  
gcttagtggc tgcaatgagc tcttanttgg catc 274

<210> 676  
<211> 416  
<212> DNA  
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<220>  
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agagtcttct tcccaccctg ggcagggatg cacacggctg cagcgctggg gtcggggccaa 180  
gcagatgggc ttggagcctc cccagaggt gtggcaggtg ctgaagaccc accccggagg 240  
acccccgctt ccagtgcagg tcagagacag gccgggaggg ctttcagggg agccagggcc 300

tttttncagg catgttcacc cngctgttcc tgacctgagg gagnaatggt tggaggggtt 360  
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ggagggtttt cggggggttc ggcgtgcac cttggggccc cccgcagccg tntaccgggc 180  
ctcccatctg ctaagcnttt ttccgttgag ccgntccaaa aacactaagc tggggacgcc 240  
aagtgcctccc ccaccccggc tccctggccc tatccacaac ttcaacncca ncccaggatc 300

gccatctttt aggggaggcc tnggaagggg gtgttaaggt gtttttaggg ccaacgaggt 360  
tnaaacaaaa aggacccttn ccannccaa ccannccaan ccnaattna nctncatgnc 420  
ttaggggaaa aatttncnna acaatttncc ctttnnngga accngggcaa anncaaggna 480  
agttttnggg gtttnaattg tttctta 507

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caggctcagg gaccggccgc ggncccgtag tgtattttaac tcaaattgggt gatgaaaagg 120
tnctcttggn aaagtgnaaa acttttagatg gaaattcttc agggaaaaga aacgaggnaa 180
ggaacaagag gagaaagcag agntaaaacg cttaaaaaat tctgatgacc gggattccaa 240
gcgggattcc cttgaggagg gggagctgag ngattcactg ccatggagat cacaataagg 300
nactccccgt atagaagaga agacttcatt ggnagacagn ggnggaagaa gttggtttct 360
ttggccatca aaccaccccg gcaaatgttn ttggaaagna aaagtccctt cccggaaaagt 420
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gaggacccaaa gaaattgtca gctatacatt tatctttatg aactcattta ttttcctttt 120  
taatgactcg ttgttctaac atttcctaga agtgttctta taaaggctta atgtatccac 180  
aggctgttgt cttattagta aatgcaaaga aatgactttg tctgttttac tctagtcttt 240  
agtacttcaa aattaccttt catatccatg atctgagtc attgggggat ttttaagaatt 300  
gatgtattca atacacgttc aaaataaatg ttttaatttag tatgagtang tagttcccga 360  
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<210> 683

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<212> DNA

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cacgccgcct cctctggggt cggectccgc gcggtgcagc gcantctcag gccgcgggac 180  
aagcccgact taaatctctg caatggctaa cgaacttatc cttgtccgtg ttgacttggc 240  
cacanattga ttatggaagg ctaggcgtga attcaattcc aacaatcaag gttatttcac 300  
aatccccttt gangcaggca actgtaatgt cntccanant atttggtggc attgcccata 360  
canattntac tgaatnanc cggaaatgata ccaacatgtc ccaatctttt tngggaaact 420  
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<210> 684  
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<212> DNA  
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gcaactgcga gggtagcccc gggccgcttg gagtcgccc gacctgagag gctgctgcac 120  
tgggcctcag ccagccctcc ggatgctggt gctgccatcc ccctgccctc agcctctggc 180  
attttcctcc gttgagacca tggaggggccc tccccgtcgg acttgccgct ccccgagaacc 240  
tgggaccttc ctccctccatc ggattctccc caggctttca tcttcttcca agggcccaac 300  
cactaacttg ctttattgga cattcagggt gttccctgac acagtgggtg gtgggacgag 360  
gagtcacaga ggggagccag gggccagtg gggttccagg ncagaaaaat tggttacagt 420  
tgcccgtgtg gtcaagggtc ttccgagtaa atgttctntaa ttttaaggga cacagcatna 480  
accaattggg agttaaagc cttcgnatgt gnaatttgn gggaagg 527

<210> 685  
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<212> DNA

<213> Homo sapiens

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<210> 686

<211> 534

<212> DNA

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tgtaagttac agacatttat gttttcanca acagtttata atagttacat ctcatacttc 120  
anctattaca acagagagaa cattaaagta caaagaaaga cttcaaaaat gaggttactg 180  
tgatgtatca taaaaggant taaaattcaa aatatcaaag acctcaccta tcggactaaa 240

cataaatctt aaaacctcct atggtcctct gancnnaaaa ttacaaaact tagcaactgc 300  
ttaaaccnta ggaattaacg gntctgtgtt ttccaggtaa gaaaaacaaa aaatgctttg 360  
gtaaactanc ccatnatnta gtttaaatgt ttctgccccg ttttgtatcn ctccttgaaa 420  
ganagtatat aanttncagg ccagcatata tttnaaaaaa catctcccaa atttcattta 480  
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<210> 687

<211> 308

<212> DNA

<213> Homo sapiens

<400> 687

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taaaagcagc caccaattaa gaaagcggtc aagctcaaca cccactacct aaaaaatccc 180  
aaacatataa ctgaactcct cacacccaat tggaccaatc tatcacccta tagaaagaac 240  
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<210> 688

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<212> DNA

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aataaatatt ttagtggaan aaaaaaaaaan naaantnann nnaanannna aaatannaan 180  
aagggcgggcc gcnctaaagg atccaanctt acgttcgcnt gcntgcaacg tcatacntct 240  
cctatnttgt cacctaattt cnatccoctg gccgtctttt tacaaccttc nngactgggn 300  
aaatccnctn gcgttnccca acttaaaccg ccttgcaant acatcccctt ttcgccagct 360  
nggcgttntt tctaaaaaag cccgcacccg atcncccttc ccaattagtt gcnnnccctt 420

taattgggna antggggacc cccctgtntt cggntccctt taatcttcgg nggggtggtg 480  
nttgggttta cctccacct ttgaacctt atanttgnn atnncccaa atcncccgct 540  
cctttccgct ttncttccct tncctttctc cctctcttcc cncgggtnt cnccggttct 600  
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ctgcggacac acgcaaaanc aactcccagc tctgtttgat gttactcgtt tcctcaacaa 180
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ngcttcncc ccccaaaaac cccctntntn aatgcttcc ggccancct taaaacctgg 420  
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agnccctgtgc tcgatggagc gggctcccag gccggcagcc cttgccanct tcctntgcca 180  
agcctgntgc tgnagaacgg ttattgctga ggtgcccctg tccaggcctg ctaacnttgg 240  
ccacanacac atatnangcc cttggcttac agcctnaacc tnggcttcac nnctgctggc 300  
cancnagact gcttcntgnc agcattgatc ttgtgttnan caagtctcac tggcanagct 360  
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aacagtecta antagcngcc ctcaattgtg aaaaaattta ctttaaacta cattagggtg 180
tgaatgcngg ttttatcaga actatgtttt ttgttcagnt tatctgntca tatggataaa 240
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<400> 696

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tcagtctttt tatagatata aatcaagtag gcattatggt ttaaaagact gacaggtaat 120
tatatttggn aaacatttna tgcactaact ttaaagnaat tgaaaattca ggtggataaa 180
tagnccttaca aaagan                                     196
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<210> 697

<211> 263

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<400> 697

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agcctctggg ctctgtctt tgcctcctgc ttaggaacct gtccccctgg ggtagcttca 180
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caacaccttc aaacataggg agtcagaggn ncacccgaga agggnccttc ccacgtncag 240  
gaccaaattt ctncgggaa ttt 263

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ccttttctaag cgtcatgcaa attcgagaat ggagaaggac gctgccggtc cctgagcggc 180  
gtggagaggg cggaagggtg actccagcgc agcttgaggg gctgaggacg gaggctgcag 240  
catctgtgtc gttctactga gcacgcttct ctgcctcgct cctgactcag cactttgttc 300  
actggctcag cagttatggt tacacatcat ttttatggtc ctgctttgta attcatgntt 360  
gagatgggtg gccactgtac agatatttat tacgcttttc agactttctg aatagatttt 420  
tttgaataaa catgggttta tgaaagtgna aaaaaaaaaa aaaaaggggg gcccttttan 480  
aggatccaag ttacnacnc gggcntgg 508

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cccactatgc ttagccctaa acctcaacag ttaaatcaac aaaactgctc gccagaacac 180  
tacgagccac agcttaaaac tcaaaggacc tggcgggtgct tcatatccct ctagaggagc 240  
ctgtttctgta atcgataaac cccgatcaac ctcaccacct cttgctcagc ctatataccg 300  
ccatcttcag caaacctga tgaaggctac aaagtaagcg caagtacca cgtaaagacg 360  
ttaggtcaag gtgtagccca tgaggtggca agaaatgggc tacattttct accccagaaa 420

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actacgatag cccttatgaa acttaagggg cgaagggtgga tttagcagta aactgagagt 480
agagtgctta gttgaacang gncctgaacg cgacacaccg ccgtaccctt ctcaggatac 540
ttcaaggacn ttactaaacc cctacgcatt atttgaggag acagtcgnaa catggnagtg 600
acctggaaag ngcncttgga caaccaaaaa aaaaaaaaaa aanggggggc c          651
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tttttttaag gggggggggg gggggaaaaa aaagtaaang ggggggggng ggggaancttt 120  
tttttnccn ccatcaagg ggggaanttt antttttggg gtnaacaaac ccttgcccc 180  
nggntnacc cggggttccc gggggaaaaa ntttncccc ggggggttcc ggnaanccct 240  
tattgccngt tncccgggg ttttttnccc naaaaaaaac aaantttntt tccccttttg 300  
nccnntttta acttgggccg ccttgccca aaagggcttt gggggggggc naaaggggtca 360  
attncccttg aancttgaaa ccggggaaaa gcttcaactt tggcattngg cccttnccgt 420  
ggtccccact tgcaaacgtg gtcaantggg tgggaacctg aacttgccgt ctaaaaaaa 480  
acttgccaaa tattgaatga acantcaaaa aaaggtgggt gaaancaagc ctengnaagg 540  
cccccttcaa aaggcaatct tggcttacac ttaacaccaa ggtgggtctnc ttttgacttt 600  
naacaagnga acanccactt cttcancntt taacgcttgg ggcttgcant tgnccctcaa 660  
ccaanccatt ttgtcaaagc tcaattttct tgggtattaa caaaaccaa attttggctt 720  
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aagggaa 787

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tttanngnac cca 133

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tgcaacattt gacaaaacta accttgaata aggccactg taatacgtag ctctcttaaa 120  
tataacactt aggactagaa gattagaaac taccaatccc aactacgtaa taggaaaatg 180  
taggatcaaaa aggcccatgt atataagtac tgaccactgg gccataatgt tgcttctcag 240  
gctatatgca gtccttttagt cagaagtcaa taggcctatt tattaatatt ttacagacca 300  
tattacctgg attaccaggg actatctttg ctgcagagat caaggggttaa gatctatggg 360  
aagatactta tttttctgag gnccttatgc ctggcatata attaaagact cangagaatt 420  
atgngaaatg ctttctggnt gcccnaa 447

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aataaacatt cttttctggt ggggaggttg taaatggggg aggggtgtgca tgtgtanggg 120  
cacgagttat atgggaattc tctgtacctt ctgttcaatt ttgctatgaa cctaaaactg 180  
ctctaaaaaa taacctctgc tttaaaaagg tatntgtact ctatnatctt ttattagaaa 240  
tctttgttgc tattttttaca tggaaaaata cnggatgaag tccttattcc cctanaataa 300  
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<212> DNA  
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cgtggagggg ggggcggccc gccggcgggg acaggcgggg gaccggctat ccgaggccaa 120  
ccgaggctcc gcggcgctgc cgtatcgttc cgcttgggcn ggattctgac ttagaggcgt 180  
tcagtcataa tcccacagat ggtagcttcg cccattggc tcctcagnca agcacatata 240  
ccaaatgtct gaacctgcgg ttncctctcg actgancagg attaccatgg caacaacaca 300  
tnatnagtan ggtaaaacta acctgtct 328

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 aattttatta tataaaaaata agttttaata tatattatat aaaaagtttt aataaatacc 180  
 taatatatta tttaatatga taaaacttat attaaatgaa attttatgct gttctcttgt 240  
 caatctgtct tttgttatct tgctgggtgt cctgtcatgt gagggactgc aatctgatat 300  
 gcctattttc cacagtcaaa gcaattacaa gagaattggt acaattaccc agttatgtca 360  
 agagattttt tttaattcac taaggtagag ataangagaa tgtattaaaa ataggatatt 420  
 ttaattataa atgcatnact ggngaagggg tattgntttt gaataaanat atngaggnta 480  
 tttngccatg accncanaaa aaacnnaagt tngaaaaaat cccctgggaa aatttaattgt 540  
 ntcttcnaa ctttttaaaa antaccctaa aaaaaatntt aatttggant taaaatcaat 600  
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<210> 706  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<400> 706  
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cnggtcccc cgcnggnnc cgccccggg gccgnggttc cggcggcgcc tcgcctcggc 120  
cggcgccctan cagccgactt agaactngtg cggannaggg gaatccgact gtttaattaa 180  
aacaagcat cncgaaggcc cgcggcgngt gttgacgcga tntgatttct gcccagtgt 240  
ctgaatgtca agttgnanaa attcaat 267

<210> 707  
<211> 300  
<212> DNA  
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<220>

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<222> (238)  
<223> n equals a,t,g, or c

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<222> (251)  
<223> n equals a,t,g, or c

<220>  
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<222> (257)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 707

cctccaccca cggccgggcc ttgacgtcat gggctgcggc cccctcccgg ctgaacctat 60  
aaancggcag gtgcgcgcng ccctacagac gttcgcacac ctggntgcc a gneccccaaa 120  
agtcccggga cagcccgaag cgccgcgccc gcagccccga nctccccaa g nnttcgaaag 180  
cggcgcacac tcccgtctc cactcgtctt tccaacaccc gctcgtnttg gcggcagntc 240  
gtgtcccaga naccganttg cccagaaaa cganacgccg ccgctgcgaa ggaccaatga 300

<210> 708

<211> 282

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

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<222> (6)

<223> n equals a,t,g, or c

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<222> (30)

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<222> (50)

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<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (262)  
<223> n equals a,t,g, or c

<220>  
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<222> (272)  
<223> n equals a,t,g, or c

<220>  
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<222> (275)  
<223> n equals a,t,g, or c

<220>  
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<222> (279)  
<223> n equals a,t,g, or c

<400> 708  
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gtaccgggtc cgggaattcc cgggtcgacc cagcggtccg attacaagct gtagaccacc 120  
taatatcaat ttgtaggtaa tgttcctgaa aattgcaata catttcaatt atactaaacc 180  
tcacaaagta gaggaatcca tgtaaattgc aaataaacca ctttctaatt ttaaaaaana 240  
aaaaagaaaa aaaaaaaaaa anggggggggc cncntaang gt 282

<210> 709  
<211> 399  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<223> n equals a,t,g, or c

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<220>  
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<222> (138)  
<223> n equals a,t,g, or c

<220>  
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<222> (143)  
<223> n equals a,t,g, or c

<220>  
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<222> (346)  
<223> n equals a,t,g, or c

<220>  
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<222> (364)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (395)  
<223> n equals a,t,g, or c

<220>  
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<222> (399)  
<223> n equals a,t,g, or c

<400> 709  
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tagccgcgaa ancgggaaat tcccgggggt cgaaccacg cgttccggga aaaagcttgc 120  
canaaacagg gagaaganag ganagaaaaa gggggattag ttatatcaaa aagcctggaa 180  
aggtgggaat ggaccaaaaa gatggggact cctcctttat tccaagcatg ggaggggggtt 240  
ttaaatggga gggatttcct ttttcctgcg acaaaacgctc ttttcacaac ttaccctgtt 300

aagtcaaaat ttattttcca ggaatttaat atgtacttta gttggnatta tctatgtcaa 360  
tganttttaa gctatgaaaa tatatatnaa cttanagan 399

<210> 710  
<211> 302  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (294)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (300)  
<223> n equals a,t,g, or c

<400> 710  
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caatgcaaat gtgtcaaaga catactgttg ggtgcaatat taacaatttt aaatgcaaat 120  
ttctttggat aaattatttc tatattctgt aaatctgaga tttaatgtat attttgttta 180  
aaaaatgatt tagtaaaatc tttgaaaagt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanaaaaan 300  
aa 302

<210> 711  
<211> 489  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (110)  
<223> n equals a,t,g, or c

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<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (465)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (466)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (483)  
<223> n equals a,t,g, or c

<400> 711  
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gggtcgaccn acgcgtccgg gctccacgag gggttcagctg tctcttactn ttaacnagtg 120  
aaattgacct gcccgtagaag aggcggggcat aacacagcaa gacgagaaga ccctatggag 180  
ctttaatttta ttaatgcaaa cagtacctaa caaaccacaca ggtcctaaac taccaaacct 240  
gcattaaaaa tttcggtttg ggcgacctcg gagcagaacc caacctncga gcagtacatg 300  
ctaagacttc accagtcaaa gcgaactact atactcaatt gatccaataa cttgaccaac 360  
ggaacaagtt accctagggg taacagcgca atcctattct anagtccata tcaacaataa 420  
gggggttacga cctcgatgnt ggatcaagac attccgatgg tgcanncgct attaaagggt 480  
cgnttggtt 489

<210> 712  
<211> 121  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (74)  
<223> n equals a,t,g, or c

<220>  
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<222> (88)  
<223> n equals a,t,g, or c

<220>  
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<222> (93)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (94)  
<223> n equals a,t,g, or c

<220>  
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<222> (119)  
<223> n equals a,t,g, or c

<400> 712  
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ctgctacatg aagngcccca cgtaggtncg gannactttg acatcttggt acctaggana 120  
c 121

<210> 713  
<211> 476  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<220>  
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<222> (436)  
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<220>



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<222> (450)  
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<220>  
<221> misc feature  
<222> (458)  
<223> n equals a,t,g, or c

<220>  
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<222> (463)  
<223> n equals a,t,g, or c

<400> 713  
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tcatcaacgg gaaagtactt cctctgagag tgcgagtga ccatgctcac tggtgctgcg 120  
tgggagagtc acaagccact ggcaagcaag tggatatagtc tgtgaagcac tgcagcgagc 180  
agcacctgga tcttgccctt ataagaacat ttactacct gcagctttga gtcttgccct 240  
acattttggg catgacataa gatgtgtctt tattcagctc gtcgtgaaga tgctgctgct 300  
gaatgggtca gcatactctt gtttgcattg tttgcangaa gtcggttttc atgggtcattc 360  
agtttccaca gatcttgaat gattactggc tggctggggtc tttttttcca tgagaaaatn 420  
actggtgcaa aattgnccta taaaattggn ctttactnaa atnaccaatg gtttaa 476

<210> 714  
<211> 527  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (16)  
<223> n equals a,t,g, or c

<220>  
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<222> (79)  
<223> n equals a,t,g, or c

<220>  
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<222> (80)  
<223> n equals a,t,g, or c

<220>  
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<222> (414)  
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<220>  
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<222> (415)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (419)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (462)  
<223> n equals a,t,g, or c

<220>  
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<222> (469)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (497)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (516)  
<223> n equals a,t,g, or c

<400> 714  
ccctttgant atacngaaa gctggttcgc ctgcaggtac cggtccggaa ttcccgggtc 60  
gacccacgcg tccgcccann cccactccac cttactacca gacaacctta gccaaaccat 120  
ttacccaaat aaagtatagg cgatagaaat tgaaacctgg cgcaatagat atagtaccgc 180  
aagggaaaaga tgaaaaatta tagccaagca taatatagca aggactaacc cctatacctt 240  
ctgcataatg aattaactag aaataacttt gcaaggagag ccaaagctaa gacccccgaa 300  
accagacgag ctacctaaaga acagctaaaa gagcacaccc gtctatgttg caaaatagtg 360  
ggaaagattt ataggttagag gcgacaaacc tacccgagcc tggatgtagc tggntgtnc 420  
aagataagaa tcttagttca acctttaaat tttggcccac anaaccctnt aaattccctt 480  
ggnaaattaa ccggtangtc caagaggagac caggtnttgg gacccct 527

<210> 715  
<211> 511

<212> DNA  
<213> Homo sapiens

<220>  
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<222> (23)  
<223> n equals a,t,g, or c

<220>  
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<222> (54)  
<223> n equals a,t,g, or c

<400> 715  
gaaacccact ccaccttact acntgacaac cttagccaaa ccatttacct aagntaaagt 60  
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120  
aattatagcc aagcataata tagcaaggac taaccctat accttctgca taatgaatta 180  
actagaaata actttgcaag gagagccaaa gctaagacct ccgaaaccag acgagctacc 240  
taagaacagc taaaagagca caccctgcta tgtagcaaaa tagtggaag atttataggt 300  
agaggcgaca aacctaccga gcctggtgat agctggttgt ccaagataga atcttagttc 360  
aactttaaat ttgccacag aaccctctaa atccccttgt aaatttaact gttagtccaa 420  
agaggaacag tctttggcac taggaaaaac cttgtagaag agagtaaaaa attaacacct 480  
atagtaggcc taaaagcagc accaattaag a 511

<210> 716  
<211> 81  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (39)  
<223> n equals a,t,g, or c

<220>  
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<222> (74)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (77)  
<223> n equals a,t,g, or c

<400> 716  
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gaagaataga gggncctnatg g

81

<210> 717

<211> 208

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

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<222> (6)

<223> n equals a,t,g, or c

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<222> (20)

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<222> (71)

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<221> misc feature

<222> (72)

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<222> (175)

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<220>  
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<222> (201)  
<223> n equals a,t,g, or c

<400> 717  
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ttttaacact nntttaactc aaaatttgta atcattctta atancatctt tcttnatcaa 120  
aagaaanagg aatttaatga caggcagaca ctcttttaaa acttattcac aaaanccaat 180  
aactgcacaa aatgntatta nctgcctg 208

<210> 718  
<211> 562  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (557)  
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<400> 718  
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tgccaggggc tgagtgtctag ggactcgtca tgagtgggga tccccacgtt cctgtcactg 120  
ctgtcaaaca gaaggtaaac agtccttatga atgtatttcc ttaggaaaac ttgtaaaaac 180  
ttttattagg atatctatct aatactgaac tttggcctac tttgtgatag actataaaca 240  
aattgaggaa atcactatct ctcaacttctg tattttctca aaaataatct tgttacagag 300  
ttcaatatac tgtgtaccat tgatcttcta ttgtgaaagc aaagaatttc atcaaaatat 360  
tttaaattat gagtgaanaa tgtgtatggt aattttgcag ctataatatt aatcaaattt 420  
tgtgtaattc taatcacaaa atgacgtgcc ttaagtgcc ctccagctgt ggggtggcag 480  
tgtccggaca gggaggggcc atcacgaaa tcctgaatga ttactagacc aattctatta 540  
aaaacatttc aaggcanaaa aa 562

<210> 719  
<211> 579  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (400)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

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<222> (501)

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<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<400> 719

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gcaaaccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattatagcc aagcataata tagcaaggac taacccttat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca caccctctta tctagcaaaa tagtggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggttgt ccaagataga atcttagttc 360
aactttaaat ttgccacag aacctcttaa atcccttgn aaatttaact ggtagtccaa 420
agaggaacag gtttttgac ctaggaaaaa ccttgtgaag agagtaaaan tttaacaccc 480
tagtaggcct aaaagcagcc nccaattaag aaagcgtca agcttaacan ccantaccta 540
aaaaatccca acttntactg gacttcttac acccatng 579
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<210> 720

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<400> 720

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gaggaacagc tctttggaca ctaggaaaaa accttgtaga gagagtaaaa aatttaacac 120  
ccatagtagg cctaaaagca gccaccaatt aagaaagcgt tcaagctcaa caccactac 180  
ctaaaaaatc ccaaacatat aactgaactc ctacacccaa ttggaccaat ctatcaccct 240  
atagaagaac taatgttagt ataagtaaca tgaaaacatt ctctccgca taagcctgcg 300  
tcagattaaa aactgaact gacaattaac agcccaatat ctacaatcaa ccaacaagtc 360  
attattaccc tcaactgtcaa cccaacacag gcattgctcat aag 403

<210> 721

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<400> 721

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ggaggggatgc agggacattt actgaaggag ggacatggac aaaacaacat tgaattccca 120  
gccccattgg ggagtgatct cttggacaca gagccccat tcaaaatggg gcagggcaag 180  
ggtagggagtg tgcaaagccc tgatctggag ttacctgagg ccatagctgc cctattcact 240  
tctaagggcc ctgttttgag attgtttgtt ctaattttatt ttaagctagg taaggctggg 300  
gggaggggtgg ngccnggtn cnnttag 327

<210> 722

<211> 202

<212> DNA

<213> Homo sapiens

<220>  
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<222> (48)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (54)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<220>  
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<220>  
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<222> (139)  
<223> n equals a,t,g, or c

<220>  
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<222> (165)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<400> 722



gctcgcgccc caggccggtg tacccccgca ctccgcgccc cggectanaa gctntctctc 60  
ccngntcccc ggnccggccc ccgtcccgcc ccgccccaga tccgctgggc cgccatggag 120  
cgctggcctt gaccgtaang gcggcgccctg gctgctcgtg gctgnccgcg cgctgntgca 180  
antgctgagc tcagacctgc nt 202

<210> 723

<211> 354

<212> DNA

<213> Homo sapiens

<220>

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<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

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<220>

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<222> (335)  
<223> n equals a,t,g, or c

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ggcttntctgt ancgtaatt tcaggaaatc ctangcaaatt atgcagttac tgntctagaa 120  
gatanatagg tagtgtgtac tgtgatggaa attnnaatgt cactgttaaa aggtttgcat 180  
tttgtgggct tggaagggcc tanaacttcc ttcttaggct ttctcttcac taagtgggct 240  
cttgcnttat attacttcca gagaaaggca ggcnngatta gaggcattggt aaggnganca 300  
atgtggggaa atacctatac tgtgcaaaag agncnaagga caacctttta atgg 354

<210> 724  
<211> 310  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (151)  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (217)  
<223> n equals a,t,g, or c

<220>  
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<222> (239)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<222> (296)  
<223> n equals a,t,g, or c

<220>  
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<222> (297)  
<223> n equals a,t,g, or c

<400> 724

gctacctcgg tgcgcgcccc gntcgcaggg cccgccagaa ggcccgtggc cacggcgaat 60  
acggcgcggtg cgtcccggcc ccaggggtccg gcagccccgc cgcccgagcg cctccctgcg 120  
gcctagccgg gcccggccgg gccggagcag ntccacgg cccccaccg ntgcctgcc 180  
cgccgcctcg cgggtggggg cgngcgcggg gtcacnccc cttttgaaat ttgagtctng 240  
caaccagnaa gttcgggaat ccgagatacc ggatcctctg cgcaaatgt tttctnnca 300  
aggtgaaagg 310

<210> 725

<211> 99

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

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<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

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<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<400> 725

gcggacgcgn gggcgggcg gggggcgcc atgaggctcg ngcggcggng gcgggcgggg 60  
taggncggcg ggcccgggga gggggcggn agggcatgt 99

<210> 726

<211> 208

<212> DNA

<213> Homo sapiens

<220>

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<222> (44)

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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (187)  
<223> n equals a,t,g, or c

<220>  
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<400> 726  
agtgagtcac ctgctggccg gcttctgtgt gtgggtcgtc ttgngctggg tagggggctc 60  
agtncccaac ctggggccctg ctgagcagga ncagaaccat tacctgcca gctgtttggc 120  
tgtacggcga gaatggnacg ctgactgcaa ggggcttggc gcggttttcc acaacctgng 180  
gctangncaa gttcaagggc ttcnactg 208

<210> 727  
<211> 441  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (394)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (405)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (422)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (433)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (438)  
<223> n equals a,t,g, or c

<400> 727  
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tgaacgaaac aagaaagaaa caaaacagaa gaggaatgaa aaagacataa tgatgtcatc 120  
caagccaaca agccatgctg aagtaaataa aaccataccc aacccttacc caccaagcag 180  
ctttatggct cctggatttc aacagcctct gggttcaatc aacttagaaa accaagctca 240  
gggtgctcag cgtgctcagc cctacggcat cacatctccg ggaatctttg ctagcagtca 300  
accgggtcaa ggaaatatac naatgataaa tccaagtgtg ggaacagcag taatgaactt 360  
taaaagaaag aagcaaaggc actagggggt gatncagatc atggntggat tgatgccatt 420  
gnnttggaat tgntttgngt t 441

<210> 728  
<211> 429  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (95)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (99)  
<223> n equals a,t,g, or c

<220>  
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<222> (149)  
<223> n equals a,t,g, or c

<220>  
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<222> (231)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<220>  
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<222> (284)  
<223> n equals a,t,g, or c

<220>  
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<222> (290)  
<223> n equals a,t,g, or c

<220>  
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<222> (311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (317)  
<223> n equals a,t,g, or c

<220>  
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<222> (327)  
<223> n equals a,t,g, or c

<220>  
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<222> (357)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (363)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (397)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (403)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (416)  
<223> n equals a,t,g, or c

<400> 728  
ctcaagtctc ttttctgccc aaaaagggaa aagtgataga aatgggggtg gcaagtgggg 60  
tgagtggatg aaggtgggta ttgggggtgg ctgtnaaana aaataatgga gaatcacttt 120  
tctatacatc tacctatact taatctaana aacaaagtaa tctactgtaa agtactctgc 180  
cccttgaaag aagtattaaa aagagtgagg atggatttaa aaaaaaacat naatttagaa 240  
atnttcaaaa tggtttttgt gggnagattc ctattatgaa ttcncacatn tttaaagaat 300  
gagaaacata nttattngtt aaaaatncca aaacagttc ctgggttcct cttgtntttt 360  
ganaactaaa aaaaatacca gagtggttga atctccnaaa ccnatgaaat cccccnaaat 420  
tttaaggac 429

<210> 729  
<211> 260  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (53)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (54)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (57)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (89)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (103)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (104)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (120)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (150)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (188)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (195)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (251)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (256)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (259)

<223> n equals a,t,g, or c

<400> 729

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tggtaccct gcaggtaccg gtccggaatt cccgggtcgn tccacgcgtc cgnnctntat 60
caaagtgttg ccagaattca cagtttagng catctaaatc canntatata gaaagcgctn 120
tttttctttt ctttcttttc tttttttttn ttttttttta agatggactc cacgttgcca 180
aggctggnaa tttgnttcct cttgatcaat ataaagacgt ttcaacatta ttgatctctt 240
tagagtttgg ntatantant                                     260
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<210> 730

<211> 136

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

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<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<400> 730

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gcggancacc atatngaacg ggagacctgg tgactagaca tcaagcaang nactatgcac 60
```

caagaatata aaganggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aanaaaaaaa naaaaaa 136

<210> 731  
<211> 110  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1)  
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<220>  
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<222> (25)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (34)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (61)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (83)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (110)  
<223> n equals a,t,g, or c

<400> 731  
nccctagaac cccagccagg accgnggagg ccngaagac ccccatcaag gaggagctgg 60  
nggcagggaa aacctacagg cgntgagaga gaggccgcag caagaagcan 110

<210> 732  
<211> 639  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (222)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (247)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (387)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (457)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (514)  
<223> n equals a,t,g, or c

<220>  
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<222> (577)  
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<220>  
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<222> (579)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (588)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (607)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (639)  
<223> n equals a,t,g, or c

&lt;400&gt; 732

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gataaacaat aaaatattgt gaacatcttc attagaatat ttttgtcagc tttggaggta 60
ggatctagat aaaagttttt aggctaaccc aaaatatatta tcttcagtaa tgatatgcct 120
tttgcgtgtg atgacatctg aaatgtggat aatactgaaa cgctctcagt cttaaactta 180
taagctacac taaaatctaa ttaatgaatt gctgtaaaag tngttgatta ttaatataag 240
ctgtagnntt taacttttta tctgctgcct cttgtgttca tttcctttta aagggtgattg 300
gtttctgttt gtcacaaaaa cataaaaacc tttaaaggagt cttacagatt ttttgtgctg 360
ntagggtggct tttcccttct ggctctnttt ttttaaacia taattaataa ctaaaatatt 420
tatgtcttat tgaatatctt atggtataat aacatanntt atcttaaaat aatcaaatag 480
gatattcatg gattttttaga tctgtcttgt gagntgtgac agattttattc aataaacatt 540
tattgagtcc cctatcaact acttggtacc aaagaanana gatgaatnaa tcttgggtctt 600
tcaaaangct ataggctatt ggggggaaat agggatggn 639
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&lt;210&gt; 733

&lt;211&gt; 380

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (12)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (40)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (44)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (58)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (306)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 733

```
gaattcattt tnttcttatt aaggaaatac tttgcataa gggnatcatt cccagagngc 60
tttacaaaaa ttctcttaaa taaaaataat agactcgcta gtcagtaaag atatttgaat 120
atgtatcgtg cccctccgg tgtctttgat caggatgaca tgtgccattt ttcagaggac 180
gtgcagacag gctggcattc tagattactt ttcttactct gaaacatggc ctgtttggga 240
gtgcggggatt caaagggtggt cccaccgctg cccctactgc aaatggcagt tttaatctta 300
tctttnggct tctgcagatg gttgcaattg atccttaacc aataatggtc agtcctcatc 360
tctgtcctgc ttcataggtg 380
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<210> 734  
<211> 311  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (27)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (61)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (92)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (128)  
<223> n equals a,t,g, or c

<400> 734  
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nccgggtcga cccacgcgtc cgcggacgct tnggttggtg gccaggaaa ggtatatagt 120  
aaaagtnta aaccatgtca actgaagtga gtgtaatctc agatatcaac attattatat 180  
tttaaaatca cgctatggaa atatcacctg aattctgtca tttgtcagat ttacagtacc 240  
tttttttctt taacttttag cattaaataa aaataaaaatt gggagcactg aaaaaaaaaa 300  
aaaaaaaaaa a 311

<210> 735  
<211> 361  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (173)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (219)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (308)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (314)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (327)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (331)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<400> 735  
gtaccgctgc cgccgtctct aaggtcgccc ggggtcccacc gccgccacca tgcctcgggg 60  
aagccgcagc gcggcctccc ggccagccag ccgccccgcc gcgccctctg cccacccgcc 120  
cgcgcaccca ccgccctcgg cagccgcccc agcccccgcc ccttcggggc agncggggct 180  
catggctcag atggcgacca cggccgcagg ggtagccgng ggctcggtctg tgggacacgt 240  
catgggcagc gccctgaccg gagccttcag cgggggggagc tcggagccct cccagcctgc 300  
tgtccagnag gccnccaccc ccgtgnccc ncagccctg canatggggc cctgcgccta 360  
t 361

<210> 736  
<211> 388  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (38)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (43)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (49)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (53)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (64)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (85)  
<223> n equals a,t,g, or c

<220>  
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<222> (109)  
<223> n equals a,t,g, or c

<220>  
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<222> (148)  
<223> n equals a,t,g, or c

<220>  
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<222> (153)  
<223> n equals a,t,g, or c

<220>  
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<222> (161)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (164)  
<223> n equals a,t,g, or c



<220>  
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<222> (169)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

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cctnaacatt tgacttcatt gtggncaata atggtctctg aattgattna gacattcaca 120  
cagcttgaag aaaatctaaa agatgaanat gantcattga naancaccnn caaagtaaac 180  
agaattnaag tttcagtccc ggatgcaaat ggaccctcag tgggggagat nccccanagt 240  
gaactcatct tgtattttatc agctngcaaa ttcttggaca cagcagcttt cttttncacc 300  
tgacaagatg ccattatttc aaatttatac gngggcattt attcnagaag tggacacata 360  
gggccctgtc ttctgttnat gtanagga 388

<210> 737  
<211> 146  
<212> DNA  
<213> Homo sapiens

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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (133)  
<223> n equals a,t,g, or c

<400> 737  
ggtaaataca agttttgggt ggaagtgttg anaagtatga gttttttgtt gtttttgttt 60  
tacttaaaan ttttaattta tccagaatgg cagtancctt ancaagcaga tggtcacaat 120

ctgnttttcta aancattttt tattaa

146

<210> 738

<211> 101

<212> DNA

<213> Homo sapiens

<220>

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<222> (9)

<223> n equals a,t,g, or c

<220>

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<222> (46)

<223> n equals a,t,g, or c

<220>

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<222> (67)

<223> n equals a,t,g, or c

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<222> (99)

<223> n equals a,t,g, or c

<220>

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<222> (101)

<223> n equals a,t,g, or c

<400> 738

ggtgagagnc tcatttctat gcacagtgtt tctgaggagg atgganctag atagctgtct 60  
gttgtcntgt agcccaagct tgataatgga actatccang n 101

<210> 739

<211> 542

<212> DNA

<213> Homo sapiens

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<220>

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<222> (10)

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<220>  
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<220>  
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ggtagccggtc cggaattccc gggctaaata tgaaaataag tcatttgaaa aaaatacagt 120  
atgtaaaatt tgttcattcg ttgaggtaat ggtgctatgt ttttacaaaa ttgttcctac 180  
accttttttc tacttcaggt attttatttc aaccatttcc atcaattgaa ctgttaccat 240  
tgccttttttc tgttgagaaa ttgcctctga aaaatagtcg tatttttcag cttaagtgtt 300  
cttaagtga tgaaattttc aaagtactag atcaccttaa aattatttca cgtactgaag 360  
acaattaagt ccgttatggt tagagtagaa aatgtttagg ttaaagagca tctgtcaaca 420  
gaatctacaa aaaagattcc cttgcatttg aattaagntc tctattctcc tattgctaaa 480  
tgtgngatat atanagagga tgtataaaag gaaatggaaa tagactatgn acttggtgctg 540  
nt 542

<210> 740  
<211> 184  
<212> DNA  
<213> Homo sapiens

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<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (138)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (171)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (175)  
<223> n equals a,t,g, or c

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gacccacgcg tccgtcnngc tccgctgcgg cgccccaact gctgatngag ctgctggggc 120  
tnagcgctct gctgcagnga gatcccagga agctggcaca tcttggaagg nccgncctgc 180  
tcgg 184

<210> 741  
<211> 231  
<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<220>  
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<222> (176)  
<223> n equals a,t,g, or c

<220>  
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<222> (225)  
<223> n equals a,t,g, or c

<400> 741  
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cagccacccc ccaggacttc catgaagtag aggacttgat aaagactgcc ataggcaaca 120  
cactggtcca ggacatctga tattctccag atacccaaaa gctcctngtn cgnctnagtg 180  
acgattacaa caggacgttt ctggagaacc tgaaagtga caccngagaa t 231

<210> 742  
<211> 119  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (66)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (92)  
<223> n equals a,t,g, or c

<220>  
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<222> (97)  
<223> n equals a,t,g, or c

<220>  
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<222> (103)  
<223> n equals a,t,g, or c

<220>  
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<222> (116)  
<223> n equals a,t,g, or c

<400> 742  
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ttttcnttta tacttttggt tattttttcct gnttatnaaa acngccaaca attgcnttt 119

<210> 743  
<211> 580  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (264)  
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<222> (338)  
<223> n equals a,t,g, or c

<220>

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<222> (369)  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (458)  
<223> n equals a,t,g, or c

<220>  
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<222> (499)  
<223> n equals a,t,g, or c

<220>  
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<222> (515)  
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<220>  
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<220>  
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<220>  
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<222> (563)

<223> n equals a,t,g, or c

<400> 743

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ttcctccctc ctttaattaa tggaatcttc tgaattttcc ctgaatgttt aaagatcatg 120
acatatgact tgatcttctg ggagcaggaa caatgactac ttttcttgtt gtgttaacat 180
gtcgctagcc agtgctccag gcaccagct ttgtctgtgg gttagtattg gtgtatgtat 240
gagtatctgt atgtatatat acanggtatt tatagagaga gactatcctg gagaagcctc 300
gttttgatgc cattcttcct tgcaaggtaa agcaaggngg gtggaaacta agacacctga 360
accctncang gccttccgca tcaangtcag catgangaca gaccacagag ctgcactttt 420
gctccgaagc tacttttcac tgncccgctc aatctgantg ctgccacaac cagtcagggc 480
cgtcacagag agggagagnt gagaaagaag tcttntcttt tattgagttc caagactacn 540
accaattaca ctggcttttg annccgtgat cctgatccaa 580
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<210> 744

<211> 225

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (217)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<400> 744

cgaacaagac atgaaaagag nggtgacaaa tcaagaataa acactgggttg tagtcagttt 60  
tgtttggtga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaggggggn ccngttnaan gggnc 225

<210> 745

<211> 338

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)

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<222> (49)

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<222> (56)

<223> n equals a,t,g, or c

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<222> (58)

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<220>

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<222> (62)

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<222> (175)

<223> n equals a,t,g, or c

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<222> (316)

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<220>

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<222> (321)

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<220>

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<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (338)  
<223> n equals a,t,g, or c

<400> 745  
nagctggtac gcctgcaggt accggtccgg aattcccggg tcgacccang cgtccntnaa 60  
antaaagggg ctacagaaac actcattttt atgctgttcc ctcttgggct tcatgcaaag 120  
acaattctgt gtaaatgtac agttgactct gatttggaaa tatgaaaatc agtcnadcct 180  
tggtataaaa aattttttta caattgtaat tatattgatg ttcattattgt gtaaaataac 240  
tcatttaata aaatagtact ttgattttacg acaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300  
aaaaaaaaaa aaaaanaaaa naaaaaaaaa aggnangn 338

<210> 746  
<211> 160  
<212> DNA  
<213> Homo sapiens

<400> 746  
ggtttcagtt gagccctgga actcctaaac ctttgcccct ggggcttcca tcccaaccag 60  
tgccaaggac ctctcttccc cccttccaaa taataaagtc tatggacagg gctgtctctg 120  
aagtactaac acaaggaaaa aaaaaaaaaa aaaaaaaaaa 160

<210> 747  
<211> 218  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (198)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (213)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (218)  
<223> n equals a,t,g, or c

<400> 747  
ggaaaaaatg cattgtcaac ggaatctttt atgtttgttt gtcttccttt aagcaacatt 60  
gccttacttg ttataaaaaga taaataaata tttgttcatt tcaaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaangg 180  
gcggccgttt taaaggancc aagnttacgt acncgtgn 218

<210> 748  
<211> 265  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (41)  
<223> n equals a,t,g, or c

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<222> (52)  
<223> n equals a,t,g, or c

<220>  
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<222> (53)  
<223> n equals a,t,g, or c

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<220>  
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<222> (186)  
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<220>  
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<222> (207)  
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<220>  
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<222> (208)  
<223> n equals a,t,g, or c

<220>  
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<222> (258)  
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<400> 748  
gctgttactt angaaaatgg aacacaanaa aagtaaagaa naaagaatga cnnacacatt 60  
taagatctga ttggacncgn angataatcc tgagaattgc taatanntca ctgggttttg 120  
nccttantgt tgacttcagt atgctgagan ggngaccanc ncgcctagag ctaangcttg 180  
atgacnttga agagtttgag aacatttnaa aggacctgga gacccgtaag aaacagaagg 240  
aagatgtgga agttgtanga ggcaa 265

<210> 749  
<211> 156  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (92)  
<223> n equals a,t,g, or c

<220>  
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<222> (107)  
<223> n equals a,t,g, or c

<220>  
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<222> (132)  
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<220>  
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<222> (146)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (156)  
<223> n equals a,t,g, or c

<400> 749  
gtctgaaagg aggaattttc attttccttt aaagtgaaaa ggtaaaaact gcatttacta 60  
aaccaggccg gtgggggctc tgtgagcccc tntgcacagg aagcctnaga gactctgcat 120  
ggtgttcccc gngcatcctg gccaanngtg gagaan 156

<210> 750  
<211> 174  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (159)  
<223> n equals a,t,g, or c

<220>  
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<222> (164)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (165)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (173)  
<223> n equals a,t,g, or c

<400> 750  
ggtcatgcac tcttacactt aaagaataaa ctatgttcta actgccacaa aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaangggng gccnntttaa agna 174

<210> 751  
<211> 74  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (42)  
<223> n equals a,t,g, or c

<220>  
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<222> (43)  
<223> n equals a,t,g, or c

<220>  
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<222> (44)  
<223> n equals a,t,g, or c

<220>  
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<222> (67)  
<223> n equals a,t,g, or c

<400> 751  
ccagtctca cccatggcat gccccctgcg atcaggccat tnnnctcctc gtggatcatct 60  
tccacangta ctcc 74

<210> 752  
<211> 210  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (88)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (155)  
<223> n equals a,t,g, or c

<400> 752  
gctctaagtc acgggaactg cccttgctac ttgtgacctg ccctttactc agcagttttt 60  
gttctgggaa gccctgggat tctgctanta cctatcactg taggtgctga agggaaacag 120  
atgaaaacat gacctcaagg agcttctgta atganaaacc aagctgcgct ggaaagattt 180  
aaaggacctg aactgtcttg actctttgat 210

<210> 753



<211> 313  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (310)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<400> 753  
ggtgagtgtc atttttaaga acagttgtag cccttctgat tattgcagta gctgtagaag 60  
tatgtaagaa tatgtgatgg gtgtagtcat tagcaaagca tttaaatacac ttgagtattt 120  
tgtcatgggt cattattatt aaagcacaaa ataacctatt gttagaaaat atgtgttttt 180  
ataaatgaat gtaaaataat taaatgaatt gtgaaatgga tgtttaagaa aatataggct 240  
taaaaagtaa atctataaaa tgatgtctta aaacagccat atcatgaaaa attctactta 300  
gctatattan tnn 313

<210> 754  
<211> 445  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
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<222> (9)  
<223> n equals a,t,g, or c

<220>  
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<222> (26)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<222> (444)

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<400> 754

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gacaggattg gccgaggtcc tcnngntgct gtngcnnacc cnacagcnag gcnacnttca 120
ataccnangg ttctgggtcc anctggaatc catgaanaan ctgantgacc tggaggcaca 180
ntgggcaccc agcccccncc tgggaagcccn naancttctg gccgccgtgt gccaccaccc 240
tgctctgnct ctgagatagc cctgggtacc ctgagccac canggacacc tcgcccttna 300
gccaccaccc ctggcaggct ttcattccccg tccatgctca agannngtcc ctggncacca 360
tggncattac cacccttcag ggcctgagca gctggatctg gtacaaagca atcggacata 420
nagttggang ggggaagcccc tgang                                     445
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<210> 755

<211> 531

<212> DNA

<213> Homo sapiens

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<222> (529)

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<220>

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<222> (530)

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<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<400> 755

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accggtctat gtagcaaaat agtgggaaga tttataggta gaggcgacaa acctaccgag 120
cctgggtgata gctggttgct caagatagaa tcttagttca actttaaatt tgcccacaga 180
accctctaaa tccccttgta aatttaactg ttagtccaaa gaggaacagc tctttggaca 240
ctaggaaaaa accttgtaga gagagtaaaa aatttaacac ccatagtagg cctaaaagca 300
gccaccaatt aagaaagcgt tcaagctcaa caccactac ctaaaaaatc ccaaacatat 360
aactgaactc ctcacacca attggacca tctatcacc tatagaagaa ctaatgttag 420
```

tataagtaac atgaaaacat tctcctccgc ataagcctgc gtcagattaa aacactgaac 480  
tgacaattaa cagcccaata tctacaatca accaacaaga aaaacannnn n 531

<210> 756

<211> 540

<212> DNA

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<222> (496)

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<220>

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<222> (497)

<223> n equals a,t,g, or c

<220>

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<222> (498)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

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<400> 756

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gtaggggaca agatgccaac tggcaagcag cttagctgaca ttggctataa gaccttctct 120  
acctccatga tgcttctcac tgtgtatggg gggtagctct gcagtgtccg agtctaccac 180  
tatttccagt ggcgcagggc ccagcgccag gccgcagaag aacagaagac ctcaggaatc 240  
atgtagaact ggggggcttt ttctcctgag cagagaggcc caaggcatgc tgtggagaga 300  
cttcacctgc caccatttcc aggtcaacag gactagagcg ttgatgggtt tcaaaccctg 360  
ttggaagaaa gtgcccatgg tttctctggt tctgccagtt tgacaagttt atggaggctt 420  
ttgaatcgta atagcaatgt gagggtgagg gacaccctac agacattaaa taatttgctg 480  
gtgaaaaaaa aanaannnaa aaaggggcgg gccggtttta aaagatccaa anttacgtac 540

<210> 757

<211> 560

<212> DNA  
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<400> 757  
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ctcaaatacag acttctgggc aagatgttct ttagagtaag caaacctaca acctaaaaat 120  
ctcttcaaga ggcattctctg gtcttgtgac gagacctctt caaaaaccca cagtataaact 180  
ccctccctc cagttggcca ccagtctgcc accaaacatg aacaaattct gctgctaatac 240  
ggtttccctt gtgatctggg tcttgaggct ttcggatctg tgcaatgaat tatttattgt 300  
tttattaaac cgacagtggg gtcccagaga ggaaccataa ataaaatgga aatctgggtgc 360  
tgtgataaag taataactag cattaatgag acctgggttt cctttcagaa aggnacagtat 420  
acctgtaaca aaggntaaag caatttatat ttaatttgca ttctgatggg aacatttataa 480  
cagcaattct aacaaaaatg catcnagtct aattcttacc tctatcanaa aacaactgna 540  
taaaatttnt ganccacctt 560

<210> 758

<211> 155  
<212> DNA  
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tgtaatatataa ttgagatgaa atgntctctg gttggaacag actctctctt tattttnttg 120  
caatcttttaa gaatacatan atntaaaant catta 155

<210> 759  
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<212> DNA  
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<400> 759  
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taacaggcat ctttcttctc 80

<210> 760  
<211> 286  
<212> DNA  
<213> Homo sapiens

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ntaactctgt cttgacgcgn ggactgcctg gcacatagta ttcattctct tccctttaac 120  
atanaagtgt ncagctgcgt acagtctntc naccagcaan tgtnaacgaa cctgtgcctn 180  
taanaagcna ttctaaacca cctatgagta tttcttttan ggctcactta aatacatgtn 240  
tgtatattct gtattctant cagaataatc tatatctgat cnaggt 286

<210> 761  
<211> 207  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<400> 761  
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tattcatacg taaaattttg gattaattng ngaaantgta attataagct gagaccggtg 120  
gntctcttct taaaagcacc atattaaatc ctggaaaact aaaaaaaaaa naaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa atgnaaa 207

<210> 762  
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<212> DNA  
<213> Homo sapiens

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<220>  
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<220>  
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<222> (140)  
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<400> 762  
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nacagcctta cttgtaanct tntggaaccc acccaccact gccaaagctca ctattgaatc 120  
cangccattc antgtcgcan aggggaagga ggttcttcta ct 162

<210> 763  
<211> 340  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (50)  
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actcaacggc tacatagaaa aatccacccc ttacgagtgc ggcttcgacc ctatatcccc 120  
cgccccgctc cctttctcca taaaattctt cttagtagct attaccttct tattatttga 180  
tctagaaatt gccctccttt taccctacc atgagcccta caaacaacta acctgccact 240  
aatagttatg tcatccctct tattaatcat catcctagcc ctaagtctgg cctatgagtg 300  
actacaaaaa ggattagact gaaccggaat aaaaaaaaaa 340

<210> 764  
<211> 354  
<212> DNA  
<213> Homo sapiens

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<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<400> 764  
aatcaacacc ctcttagcct tactactaat aattattaca ttttgactac cacaactcaa 60  
cggtacata gaaaaatcca ccccttacga gtgcggcttc gacctatat cccccgcccg 120  
cgtccctttc tccataaaat tcttcttagt agctattacc ttcttattat ttgatctaga 180  
aattgccctc cttttacccc taccatgagc cctacaaaca actaacctgc cactaatagt 240  
tatgtcatcc ctcttattaa tcatcctct agccctaagt ctggcctatg agtgactaca 300  
aaaaggatta gactgaancc gaataaaaaa aaaaaaaaaa ccnngggggg gggc 354

<210> 765  
<211> 443  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<222> (317)  
<223> n equals a,t,g, or c

<220>  
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<222> (357)  
<223> n equals a,t,g, or c

<220>  
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<222> (377)  
<223> n equals a,t,g, or c

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<222> (386)  
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<220>

<221> misc feature  
<222> (390)  
<223> n equals a,t,g, or c

<220>  
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<222> (398)  
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<400> 765  
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caactcaacg gctacataaa aaaatccacc ccttacgant gcggcttcga ccctatatcc 120  
cccgcccgcg tccctttctc cataaaattc ttcttagtan ctattacctt cttattattt 180  
gatctaaaaa ttgccctcct tttaccctta ccatgagccc taaaaacaac taacctgcca 240  
ctaatagtta tgtcatccct cttattaatc atcatcctac cctaattctg gctatgantg 300  
actacnaaaa ggattanact gaaccgaata aaaaaaaaaa aaaaaaaaaa atcccanggg 360  
gggcccgggc cccattnccc cctatnttan tttttttnaa aatccctggc cgcgttttaa 420  
acttttttat tggaaaaaaa aca 443

<210> 766  
<211> 351  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (337)  
<223> n equals a,t,g, or c

<220>  
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<222> (345)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (347)  
<223> n equals a,t,g, or c

<220>  
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<222> (348)  
<223> n equals a,t,g, or c

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<222> (350)

<223> n equals a,t,g, or c

<400> 766

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acaactcaac ggctacatag aaaaatccac cccttacgag tgcggcttcg accctatatc 120
ccccgcccgc gtccctttct ccataaaatt cttcttagta gctattacct tcttattatt 180
tgatctagaa attgccctcc ttttaccctt accatgagcc ctacaaacaa ctaacctgcc 240
actaatagtt atgtcatccc tcttattaat catcatccta gccctaagtc tggcctatga 300
gtgactacaa aaaggattag actgaaccga ataaaanaaa aaaaanannan a 351
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<210> 767

<211> 511

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

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<222> (435)

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<222> (447)

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<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<400> 767

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tcattattttt aagtatgttt taaaggactg tatttgacta atgggttccc tttaactgaa 120
cttggttttta tttctgatct aacacccctt ttaaattggat caagccaaga cagaatgttt 180
gtgacaacgg tgcttgagat tgaacaactt ttggcaaggg taggtgtttt aaaggactct 240
atttaagtaa tgggttttctt ttaactgaac ttttttagttc tgatctaaca ccccttttaa 300
atggatctgc caagacagaa tgtttttgac aatggtgatt gatactgaac agcttttggg 360
caagcgtaa gtgcttctctg ctaaatggnt attttgcnaa ttaatgtgtt ctccttaaata 420
ngatcctgga ttatnttaaa acgactnttt aattnathta ccatccatcc aaaatttccc 480
cccagcccct aatttgataa acctcccngt c 511
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<210> 768

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

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<222> (66)

<223> n equals a,t,g, or c

<220>

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<222> (338)

<223> n equals a,t,g, or c

<400> 768

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ctgnaagcna gacaccaacc ctactaaag ggaacaaaag ctggagctcc accgcggtgc 60
ggccgntcta gaactagtgg atcccccggg ctgcaggaat tcggcacgag ggcagctcgg 120
actggtcata cggccttgag aagggtagtc tcgggatgcc gtccgaagtc ggcgacaggg 180
ccggggcgca ggcgcccgtg cggaatggca gatatttagc ttcctgtggt atactgatga 240
gcagaactct tccactacat acctcaattt tgcctaagga gatatgtgca cgaactttct 300
tcaaaatcac tgcaccatta ataaacaaaa ggaaaganta ttcagagaga agaatttttag 360
gatattcaat gcaggaaatg tatgatgtag tatcgggagt ggaggattac aagcattttg 420
ttccttggtg caaaaaatca gatgttatat caaagagatc tggatattgt aaaacaagat 480
tagaaattgg 490
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<210> 769

<211> 399

<212> DNA

<213> Homo sapiens

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<220>  
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<220>  
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<220>  
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<222> (353)  
<223> n equals a,t,g, or c

<220>  
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<222> (358)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<400> 769

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ggcacgagag cgcttgggga tggatgccct ggttgctgaa gaggaggcgg aagccaaggg 60
gaatgaagtg aggcccagtg gccgggtcct cttgagttcc gcagcactta gacttacgtg 120
caccttttca tcaggtnacg gccccagttg tcaacccttc cagaacattt tcccatggat 180
tttgcggtat ttgacttttc aagattcaag agtcttaata atccngttgg gcaatttttg 240
gnaaaanttgg acccagtcaa ngttttttaa attccntccc caaggccttc cagccttggg 300
gggttccaag gttttcccga agggcccant cntaccagct ctttttttta aanggcgnat 360
anccagttga gcatatgact attgtttccc aattaccag 399
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<210> 770

<211> 582

<212> DNA

<213> Homo sapiens

<220>

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<222> (7)

<223> n equals a,t,g, or c

<220>

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<222> (529)

<223> n equals a,t,g, or c

<220>

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<222> (553)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

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<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<400> 770

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gtccacnct cgcgccacgc gtccgcccac gcgtccggcg gagttgcagc gcctgggtggc 60
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cgccgagcag cagaaggcgc agtttactgc acaggccacg tgcccgtaga aaagatactc 120
atccactgtg ggtttttggtt tcgccgtcac cccactgcct cactggattg tgaggatcat 180
atgcgacaat gtatttgaaa acgactagaa cattatcgga ggaagggtgga ctctgaagta 240
gtcgcgtgtg actatggatg tagaacaagg gtttggagcc cttcggacat ggttctaacg 300
cggcctgact tcttgctggc tacatgacct tggactacat aatcacgcct cttaaattggg 360
aggtgatgac agctatcctt gaggacctta gagagaactg atttcttagt acccagcctc 420
acaaatagtg catcacttca tggagttaatg ttgggataaa tgtgtggaga agccagggaa 480
tcgcctagac tctgcactg aaaattgtct ctccagctgt gtagaccgnt tcattgacac 540
cactcttgcc atnaccagc cggtttgccc canattgnnc ca 582
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<210> 771

<211> 452

<212> DNA

<213> Homo sapiens

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<220>

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<222> (66)

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<220>

<221> misc feature

<222> (389)

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<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (432)

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<220>

<221> misc feature

<222> (438)

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<220>

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<222> (450)

<223> n equals a,t,g, or c

<400> 771

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aaaaanaagc tatagaaagg ttaaaggcat taggatttcc tgaaggactt gtgatacaag 120
cgtattttgc ttgtgaaaaa aatgagaatt tggttgccaa ttttcttcta cagcagaact 180
ttgatgaaga ttgaaaggga cttttttata tctcacactt cacaccagtg cattacacta 240
acttggttcac tggattgtct gggatgactt gggctcatat ccacaatact tggataaagg 300
taataaattg ttgggggtgg ggaaggaagg atctaggata caggcaggat aatacatgca 360
ttctctccat tacaatccgc actcccacnt gtgtnaatat tacaccaaat cactttgcag 420
tcttattctc tntaaacnta gtacttcctn gt 452
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<210> 772

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

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<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (552)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (559)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (610)

<223> n equals a,t,g, or c

<220>

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<222> (611)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (631)  
<223> n equals a,t,g, or c

<400> 772  
ggaggggacta accccccagg agatctgcga caagtaccac atcatccaga gccttggtct 60  
ctgttgctgt accataactca tctgtccac acagatagag ggtgttcac tggcggagg 120  
actaaccccc caggagatct gcgacaagta ccacatcatc catgctgaca tctaccgctg 180  
gtttaacatt tcgtttgata tttttggctg caccaccact ccacagcaga ccaaaatcac 240  
ccaggacatt ttccagcagt tgcgaaacg aagttttgtg ctgcaagata ctgtgganac 300  
actgcgatgt gagcactgtg ctgccttctt ggctgaccgc ttctgtggaa ggcgtgtgtc 360  
ccttctgtgg ctatgaagan gctcgggggtg accagtgtga caagtgtggc aagctcatca 420  
atgctgtcga gcttaagaag cctcagtgtt nagtctgccg atcatgccct gtggtgcagt 480  
cgagccagca cctgtttctg gaactgccta agctggagaa gcgactggag gaatggttgg 540  
ggaggacatt gncgtggcant gatggacacc aatgccagc ttatcacccg ttcttggtct 600  
ccggatggcn ncanccacct gcttaaccga n 631

<210> 773  
<211> 631  
<212> DNA  
<213> Homo sapiens

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<220>  
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<220>  
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<222> (595)  
<223> n equals a,t,g, or c

<220>  
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 <222> (596)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<400> 773  
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 gactccttct accagttttc ttgcaatata tgtggcaaaa aatttgagaa gaaggacagc 120  
 gtagtggcac acaaggcaaa aagccaccct gaggtgctga ttgcagaagc tctggctgcc 180  
 aatgcaggcg ccctcatcac cagcacagat atcttgggca ctaaccacaga gtccctgacg 240  
 cagccttcag atggtcaggg tcttcctctt cttcctgagc ccttgggaaa ctcaacctct 300  
 ggagagtgcc tactgttaga agctgaaggg atgtcaaagt catactgcag tgggacggaa 360  
 cgggtgagcc tgatggctga tgggaagatc tttgtgggaa gcggcagcag tggaggcact 420  
 gaagggtcgg ttatgaactc agatatactc ggtgctacca cagaggttct gattgaagat 480  
 tcagactctg ccggacctta ntggacagga agacttgggg catgggacag ctcagacttt 540  
 gtattttaaaa gttaaaaagg acaataaaaa aaaaaaaggg gcnggccgnt tctannagga 600  
 tccaagcttt acgtaccccg ttgcaatgcc n 631

<210> 774  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 774  
 Gln Asp Glu Leu Gln Glu Glu Ser Glu Met Ser Glu Lys Lys Ser Cys  
 1 5 10 15  
 Ser Ser Ser Pro Thr Gln Ser Glu Ile Ser Thr Ser Leu Pro Pro Asp  
 20 25 30  
 Arg Gln Arg Arg Lys Arg Glu Leu Arg Thr Phe Ser Phe Ser Asp Asp  
 35 40 45  
 Glu Asn Lys Pro Pro Ser Pro Lys Glu Ile Arg Ile Glu Val Ala Glu  
 50 55 60



Gly Phe Thr Trp Xaa Ser Asn Pro Leu Lys Trp Ser Val Ala Asp Val  
65 70 75 80

Val Arg Phe Ile Arg Ser Thr Asp Cys Ala Ser Ile Ser Lys Asn Ile  
85 90 95

Pro Xaa Pro Gly Asn  
100

<210> 775

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 775

Ala Ala Arg Ala Ala Arg Glu Ala Leu Leu Gly Trp Gly Thr Asp Cys  
1 5 10 15

Pro Pro Phe Leu Met Cys Val Val Ser Leu Cys Cys Gly Ile Asp Met  
20 25 30

Asp Ala Arg Thr Thr Leu Glu Thr Gly Val Ala Ser Arg Ala His Arg  
35 40 45

Xaa Arg Glu Glu Gly Ala Ile Thr Gly Cys Gln Pro Leu Pro Gly Leu  
50 55 60

Gly Ala Leu Ser His Gly Pro Ala Pro Ser Trp Val Phe Ile Leu Tyr  
65 70 75 80

Leu Leu Gly Asp Arg Arg Arg Gly Ile Leu Pro Gly Trp Asp Lys Pro  
85 90 95

Leu

<210> 776

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 776  
Phe Gly Arg Glu Ser Cys Ser Val Arg Thr Gln Arg Glu Pro Trp Lys

1 5 10 15  
Pro Gln Arg Ile Xaa Xaa Pro Pro Ala Thr Leu Ala Pro Arg Tyr Tyr  
20 25 30  
Arg Arg Asn Cys Val Asp Ala Phe Pro Asp Thr Leu Ser Leu Ser Pro  
35 40 45  
Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser Val Gly Ser  
50 55 60  
Asn Phe Leu Thr Trp Tyr Glu Gln Lys Ser Gly Gln Xaa Pro Arg Leu  
65 70 75 80  
Leu Met Phe Gly Asn Ser Arg Xaa Pro Leu Ala Ser Gln Thr Gly Ser  
85 90 95  
Val Ala Val Gly Leu Gly Gln Xaa Ser Leu Ser Pro Ser Ala Asp Trp  
100 105 110  
Arg Leu Lys Ile Leu Gln Cys Ile Xaa Val Gln Gln Xaa Xaa Phe Arg  
115 120 125  
Ser Thr Met Phe Gln Phe Trp Ala Arg Gly Pro Xaa Leu Glu Xaa Lys  
130 135 140  
Asp Cys  
145

<210> 777  
<211> 201  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (175)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (186)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (187)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 777

Arg	Ser	Gly	Ser	Gly	Ser	Lys	Ile	Lys	Ser	Arg	Xaa	Leu	Gly	Val	Pro
1				5					10					15	

Arg	Arg	Ser	Gln	Xaa	Ser	Glu	Gly	Cys	Pro	Ala	Thr	Pro	Ala	Gly	Ala
			20					25						30	

Pro	Pro	Gly	Gln	Gly	His	Thr	Thr	Gly	Ser	Val	Lys	Pro	Leu	Xaa	Arg
		35					40						45		

Ser	Asp	Ala	Met	Glu	Leu	Asp	Leu	Ser	Pro	Pro	His	Leu	Ser	Ser	Ser
	50					55					60				

Pro	Glu	Asp	Leu	Cys	Pro	Ala	Pro	Gly	Thr	Pro	Pro	Gly	Thr	Pro	Arg
65					70					75					80

Pro	Pro	Asp	Thr	Pro	Leu	Pro	Glu	Glu	Val	Lys	Arg	Ser	Gln	Pro	Leu
				85					90					95	

Leu	Ile	Pro	Thr	Thr	Gly	Arg	Lys	Leu	Arg	Glu	Glu	Glu	Arg	Arg	Ala
		100					105						110		

Thr	Ser	Leu	Pro	Ser	Ile	Pro	Asn	Pro	Phe	Pro	Glu	Leu	Cys	Ser	Pro
		115				120						125			

Pro	Ser	Gln	Ser	Pro	Ile	Leu	Gly	Gly	Pro	Ser	Ser	Ala	Arg	Gly	Leu
	130					135					140				

Leu	Pro	Ala	Asn	Ala	Ser	Arg	Pro	His	Val	Val	Lys	Val	Tyr	Ser	Glu
145					150					155					160

Asp	Gly	Ala	Cys	Ser	Leu	Trp	Arg	Trp	Gln	Gln	Val	Pro	Gln	Xaa	Ala
			165						170					175	

Thr	Cys	Val	Lys	Cys	Trp	Cys	Thr	Ser	Xaa	Xaa	Leu	Ser	Asp	Glu	Thr
		180					185						190		

Trp Gly Phe Val Glu Cys His Pro Asn  
195 200

<210> 778

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 778

Asn Gln Cys Ser Gly Glu Arg His Leu Arg Val Thr Gln Gly Leu Gly  
1 5 10 15

Thr Gly Ala Phe Leu Gly Gly Leu Arg Pro Val Leu Gln Pro Arg Gln  
20 25 30

Gly Gln Asp Phe Arg Lys Tyr Glu Glu Gly Phe Asp Pro Tyr Ser Met  
35 40 45

Phe Thr Pro Glu Gln Ile Met Gly Lys Asp Val Arg Leu Leu Arg Ile  
50 55 60

Lys Lys Glu Gly Ser Leu Asp Leu Ala Leu Glu Gly Gly Val Asp Ser  
65 70 75 80

Xaa Ile Gly Lys Val Val Val Ser Ala Val Tyr Glu Arg Gly Ala Ala  
85 90 95

Glu Arg His Gly Gly Ile Val Lys Gly Asp Glu Ile Met Ala Ile Asn  
100 105 110

Gly Lys Ile Val Thr Asp Tyr Thr  
115 120

<210> 779

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 779

His	Gln	Glu	Glu	Leu	Arg	Leu	Leu	Gly	Arg	Lys	Ala	Arg	Arg	Asn	Thr
1				5				10						15	

Arg	Leu	Arg	Asp	Glu	Phe	Ser	Thr	Glu	Ala	Ala	Lys	Leu	Trp	Thr	Leu
			20					25					30		

Ala	Arg	Pro	Phe	Cys	Pro	Pro	Leu	Leu	Ala	Thr	Leu	Leu	Gln	Met	Gln
			35				40						45		

Met Val Val Leu Pro Cys Leu Gly Phe Thr Leu Leu Leu Trp Ser Gln  
50 55 60

Val Ser Gly Ala Gln Gly Gln Glu Phe His Phe Gly Pro Cys Gln Val  
65 70 75 80

Lys Gly Val Val Pro Gln Lys Xaa Trp Glu Xaa Phe Trp Xaa Val Lys  
85 90 95

Asp Xaa Met Gln Xaa Gln Xaa Asn Ile Xaa Xaa Xaa Arg Leu Leu  
100 105 110

<210> 780

<211> 110

<212> PRT

<213> Homo sapiens

<400> 780

Ile Arg His Glu Phe Asn Thr Lys Cys Pro Ser Gly Ser Cys Val Met  
1 5 10 15

Asn Gln Tyr Leu Ser Ser Lys Phe Pro Lys Asp Phe Ser Thr Ser Cys  
20 25 30

Arg Ala His Phe Glu Arg Tyr Leu Leu Ser Gln Lys Pro Lys Cys Leu  
35 40 45

Leu Gln Ala Pro Ile Pro Thr Asn Ile Met Thr Thr Pro Val Cys Gly  
50 55 60

Asn His Leu Leu Glu Val Gly Glu Asp Cys Asp Cys Gly Ser Pro Lys  
65 70 75 80

Glu Cys Thr Asn Leu Cys Cys Glu Ala Leu Thr Cys Lys Leu Lys Pro  
85 90 95

Gly Thr Asp Cys Gly Gly Asp Ala Pro Asn His Thr Thr Glu  
100 105 110

<210> 781

<211> 124

<212> PRT

<213> Homo sapiens

<400> 781

Gly Gln Pro Ala Arg Val Trp Ser Leu Asp Thr Met Gly Thr Arg Leu

1                      5                      10                      15  
 Leu Pro Ala Leu Phe Leu Val Leu Leu Val Leu Gly Phe Ala Pro Arg  
                     20                      25                      30  
 Ala Leu Leu Thr His Ser Pro Pro Ala Glu Val Gln Gly Thr Gln Gln  
                     35                      40                      45  
 Pro Gln Gln Asp Glu Met Pro Ser Pro Thr Phe Leu Thr Gln Val Lys  
                     50                      55                      60  
 Glu Ser Leu Ser Ser Tyr Trp Glu Ser Ala Lys Thr Ala Ala Gln Asn  
                     65                      70                      75                      80  
 Leu Tyr Glu Lys Thr Tyr Leu Pro Ala Val Asp Glu Lys Leu Arg Asp  
                     85                      90                      95  
 Leu Tyr Ser Lys Ser Thr Ala Ala Met Ser Thr Tyr Thr Gly Ile Phe  
                     100                      105                      110  
 Thr Asp Gln Val Leu Ser Val Leu Lys Gly Glu Glu  
                     115                      120

<210> 782  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 782  
 Asn Arg Asp Val Ser Arg Asp Pro Gln Phe Trp Arg Leu Arg Ser Leu  
                     1                      5                      10                      15  
 Lys Ser Arg His Gln Gln Ile Pro His Leu Val Lys Ala His Ser Leu  
                     20                      25                      30  
 Leu His Arg Trp His Cys Leu Ala Val Phe Ser His Gly Arg Arg Gly  
                     35                      40                      45  
 Lys Gln Ala Pro Leu Gly Leu Phe Tyr Lys Gly Thr Asn Ser Met Pro  
                     50                      55                      60  
 Lys Gly Arg Ala Leu Met Thr Leu Ser Pro Thr Lys Arg Leu His Phe  
                     65                      70                      75                      80  
 Phe Ile Leu Leu Glu Gly  
                     85



<210> 783  
<211> 102  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (98)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 783  
Gly Gln Ser Pro Asp Ala Gly Phe Leu Val Phe Pro Ala Gly Ile Lys  
1 5 10 15  
Gln Lys Gly Leu Leu Leu Ser Ser Ser Leu Met His Ser Glu Ser Glu  
20 25 30  
Leu Asp Ser Asp Asp Ala Ile Phe Thr Trp Pro Asp Arg Glu Lys Gly  
35 40 45  
Lys Leu Leu Ala Trp Ser Glu Trp Leu Cys Thr Gln Arg Ala Asp Pro  
50 55 60  
Ser Xaa Arg Pro Gly Ala Arg Gly Xaa Arg Ser Cys Ser His Leu Val  
65 70 75 80  
Cys Leu Leu Arg Ala Xaa Pro Gly Thr Ile Ala Arg Pro Val Leu Leu  
85 90 95  
Thr Xaa Arg Val Leu Arg  
100

<210> 784  
<211> 44

<212> PRT

<213> Homo sapiens

<400> 784

Ile Tyr Ile Thr Gly Tyr Val Asn Ile Phe Lys Tyr Trp Gly Asn Cys  
1 5 10 15

Phe Thr Val Leu Glu Pro Ser Lys Ile His Leu Cys Phe Val Phe Met  
20 25 30

Phe Ile Cys Leu Leu Lys Ala Arg Val Glu Asp Lys  
35 40

<210> 785

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 785

Ala Gly Ile Thr Pro Leu His Ser Ser Leu Gly Asp Lys Ser Glu Ser  
1 5 10 15

Val Ser His Gln Lys Lys Lys Glu Lys Glu Arg Cys Leu Thr Lys Val  
20 25 30

Thr Ile Ser His Lys Phe Xaa Thr Thr Tyr Pro Ser Ser Phe Lys  
35 40 45

<210> 786

<211> 301

<212> PRT

<213> Homo sapiens

<400> 786

Leu Arg Val Phe Leu Cys Val Phe Phe Tyr Phe Ala Trp Leu Phe Glu  
1 5 10 15

His Tyr Trp Thr Leu Val Leu Glu Gly Lys Thr Phe Gln Leu Tyr Ser  
20 25 30

His Asn Leu Ile Ala Leu Phe Glu His Ala Lys Lys Pro Gly Leu Ala  
35 40 45

Ala His Ile Gln Thr His Arg Phe Pro Asp Arg Ile Leu Pro Arg Lys  
 50 55 60

Phe Ala Leu Thr Thr Lys Ile Pro Asp Thr Lys Gly Cys His Lys Cys  
 65 70 75 80

Cys Ile Val Arg Asn Pro Tyr Thr Gly His Lys Tyr Leu Cys Gly Ala  
 85 90 95

Leu Gln Ser Gly Ile Val Leu Leu Gln Trp Tyr Glu Pro Met Gln Lys  
 100 105 110

Phe Met Leu Ile Lys His Phe Asp Phe Pro Leu Pro Ser Pro Leu Asn  
 115 120 125

Val Phe Glu Met Leu Val Ile Pro Glu Gln Glu Tyr Pro Met Val Cys  
 130 135 140

Val Ala Ile Ser Lys Gly Thr Glu Ser Asn Gln Val Val Gln Phe Glu  
 145 150 155 160

Thr Ile Asn Leu Asn Ser Ala Ser Ser Trp Phe Thr Glu Ile Gly Ala  
 165 170 175

Gly Ser Gln Gln Leu Asp Ser Ile His Val Thr Gln Leu Glu Arg Asp  
 180 185 190

Thr Val Leu Val Cys Leu Asp Lys Phe Val Lys Ile Val Asn Leu Gln  
 195 200 205

Gly Lys Leu Lys Ser Ser Lys Lys Leu Ala Ser Glu Leu Ser Phe Asp  
 210 215 220

Phe Arg Ile Glu Ser Val Val Cys Leu Gln Asp Ser Val Leu Ala Phe  
 225 230 235 240

Trp Lys His Gly Met Gln Gly Lys Ser Phe Lys Ser Asp Glu Val Thr  
 245 250 255

Gln Glu Ile Ser Asp Glu Thr Arg Val Phe Arg Leu Leu Gly Ser Asp  
 260 265 270

Arg Val Val Val Leu Glu Ser Arg Pro Thr Glu Asn Pro Thr Ala His  
 275 280 285

Ser Asn Leu Tyr Ile Leu Ala Gly His Glu Asn Ser Tyr  
 290 295 300

<210> 787  
<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 787

Asn Lys Phe Gln Gly Phe Ser Leu Pro Leu Val Arg Lys Phe Ala His  
1 5 10 15

Ser Ile Leu Gln Cys Leu Asp Ala Leu His Lys Asn Arg Ile Ile His  
20 25 30

Cys Asp Leu Lys Pro Glu Asn Ile Leu Leu Lys Gln Gln Gly Arg Ser  
35 40 45

Gly Ile Lys Val Ile Asp Phe Gly Ser Ser Cys Tyr Glu His Gln Arg  
50 55 60

Val Tyr Thr Tyr Ile Gln Ser Arg Phe Tyr Arg Ala Pro Glu Val Ile  
65 70 75 80

Leu Gly Ala Arg Tyr Gly Met Pro Ile Asp Met Trp Ser Leu Gly Cys  
85 90 95

Ile Leu Ala Glu Leu Leu Thr Gly Tyr Pro Leu Leu Pro Gly Glu Asp  
100 105 110

Glu Gly Asp Gln Leu Ala Cys Met Ile Glu Leu Leu Gly Met Pro His  
115 120 125

Arg Asn Cys Trp Met His Pro Asn Glu Pro Lys Ile Leu  
130 135 140

<210> 788  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 788

Glu Lys Arg Ser Ser Ser Phe Glu Ala Arg Gly Leu Ile Trp Arg Ser  
1 5 10 15

Lys Thr Leu His Val His Phe Gln Thr Trp Ser Gly Thr Tyr Ile Val  
20 25 30

Asn Tyr Asn Gln Ser Trp Glu Leu His Lys Asp Asn Glu Ala Gln Leu  
35 40 45

Lys Pro Ser Phe Ser Leu Pro Tyr Leu Tyr Pro Ser Leu Arg Thr Ala

50

55

60

Val Gln Glu Asn Gln Ala Val Cys Gly Leu Leu  
 65 70 75

&lt;210&gt; 789

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 789

Met Gly Trp Ala Lys His Cys Cys Arg Phe Ile Leu Leu Pro Thr Gln  
 1 5 10 15

Leu Leu His Asn Lys Ala Leu Leu Ser Leu Lys Lys Lys Lys Lys Lys  
 20 25 30

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 35 40 45

Lys Lys Lys Asn Xaa Gly Gly Gly Pro Pro Pro  
 50 55

&lt;210&gt; 790

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 790

Asp Glu Lys Gly Thr Val Pro Gln Arg Tyr Thr Phe Gly Thr Ser Ile  
 1 5 10 15

Met Lys Ala Ser Leu Ala Trp Gln Val Glu Tyr Arg Gln Phe Trp Ile  
 20 25 30

Phe Asn Ala Trp His Gly Ala Gly Val Lys Tyr Leu Ala Arg Ala Cys  
 35 40 45

Leu Pro Tyr Asn Gly Arg Glu Pro Gly Leu Trp Met Ile Arg Tyr Gln  
 50 55 60

Thr Leu Leu Leu Leu Ser Val Phe Phe Cys Gly Lys Gly Arg Arg Ile

65                                      70                                      75                                      80  
 Glu Trp Arg Gly Ile Ser Gly Ser Leu Gly Glu Val Gln Asn Lys Glu  
    85                                      90                                      95

Thr Val Lys Ser Ser Thr Ser Lys Leu Gly Leu His Gln Asp Ser  
    100                                      105                                      110

<210> 791  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 791  
 Glu Tyr Leu Thr Ser Ser Gly Gly Arg Arg Met Glu Tyr Ile Leu Thr  
   1                                      5                                      10                                      15

Asp Ile Arg Lys Gly His Met Cys Asn Ala Lys Leu Leu Arg Asn Met  
    20                                      25                                      30

Pro Glu Phe Ser Gly Val Leu His Gln Cys His Ile Leu Ala Ser Glu  
    35                                      40                                      45

Met Val His Phe Ile His Gln Met Gln Tyr Tyr Ile Thr Phe Glu Val  
    50                                      55                                      60

Leu Glu Cys Ser Trp Asp Glu Leu Trp Asn Lys Val Gln Gln Ala Gln  
   65                                      70                                      75                                      80

Asp Leu Asp His Ile Ile Ala Ala His Glu Val Phe Leu Asp Thr Ile  
    85                                      90                                      95

Ile Ser Arg Cys Leu Leu Asp Ser Asp Ser Arg Ala Leu Leu Asn Gln  
    100                                      105                                      110

Leu Arg Ala Val Phe Asp Gln Ile Ile Glu Leu Gln Asn Ala Gln Asp  
    115                                      120                                      125

Ala Ile Tyr Arg Ala Ala Leu Glu Glu Leu Gln Arg Arg Leu Gln Phe  
    130                                      135                                      140

Glu Glu Lys Lys Lys Gln Arg Glu Ile Glu Gly Gln Trp Gly Val Thr  
  145                                      150                                      155                                      160

Ala Ala Glu Glu Glu Glu Asn Lys Arg Ile Gly Glu Phe Lys Glu  
    165                                      170                                      175

Ser Ile Pro Lys Met Cys Ser Gln Leu Arg Ile Leu Thr His Phe Tyr  
    180                                      185                                      190

Gln Gly Ile Val Gln Gln Phe Leu Val Leu Leu Thr Thr Ser Ser Asp  
 195 200 205

Glu Ser Leu Arg Phe Leu Ser Phe Arg Leu Asp Phe Asn Glu His Tyr  
 210 215 220

Lys Ala Arg Glu Pro Arg Leu Arg Cys Val Ser Gly Tyr Gln Gly Ala  
 225 230 235 240

Ala His Ser His Thr  
 245

<210> 792  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 792  
 Phe Trp Ala Tyr Thr Lys Lys Ser Arg Tyr Gly Lys Ile Tyr Cys Gln  
 1 5 10 15

Gly Ile Leu Glu Phe Pro Thr Arg Val Gly Glu Arg Cys Pro Asn Ser  
 20 25 30

Leu Arg Met Val Phe Met Met Val Pro Tyr Leu Ser Pro Gly Leu Phe  
 35 40 45

Ser Tyr Ser Val Pro Gln Lys Cys Cys Arg Gly Gln Asp Ser Thr Phe  
 50 55 60

Thr Ala Cys Ser Ile Tyr Glu Ile Phe Gln Met Leu Leu Val Val Asp  
 65 70 75 80

Ile Pro Asn Ser Trp Tyr Leu Ala Thr Arg Asp His Asp Gly Met Ser  
 85 90 95

Gly Trp Leu Phe Tyr Leu Pro Phe Pro Gln Asn Ser  
 100 105

<210> 793  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 793  
 Glu Ala Ala Asn Met Ile Leu Val Asp Asp Asp Phe Ser Ala Ile Met

1                      5                      10                      15  
 Asn Ala Val Glu Glu Gly Lys Gly Ile Phe Tyr Asn Ile Lys Asn Phe  
                     20                      25                      30  
 Val Arg Phe Gln Leu Ser Thr Ser Ile Ser Ala Leu Ser Leu Ile Thr  
                     35                      40                      45  
 Leu Ser Thr Val Phe Asn Leu Pro Ser Pro Leu Asn Ala Met Gln Ile  
                     50                      55                      60  
 Leu Trp Ile Asn Ile Ile Met Asp Gly Pro Pro Gly Arg Gly Glu Ala  
                     65                      70                      75                      80  
 Gly Arg Leu Gly Ala Leu Cys Leu Phe Thr Tyr Leu Arg Gly Phe Leu  
                     85                      90                      95  
 Gln Gly Leu Leu Ala Val Pro Lys Ala Ile Gly Met Asn Lys Tyr Ser  
                     100                      105                      110  
 His Phe Pro Ser Gly Val Pro Arg Lys Leu Lys Cys Val Ala Leu Glu  
                     115                      120                      125

<210> 794  
 <211> 262  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 794  
 Ser Ser Val Pro Gly Gly Tyr Pro Gly Thr Glu His Ser His Arg Cys  
   1                      5                      10                      15  
 Arg Arg Phe Tyr Gln Leu Ala Leu Gly Trp Thr Thr Leu Ala Lys Thr  
                     20                      25                      30  
 Ser Trp Leu Glu Asp Xaa Ser Pro Asp Leu Val Pro Arg Gly Ser Gln  
                     35                      40                      45  
 Leu Ala Gly Gly Val Ile Leu Gly Val Ala Leu Trp Leu Arg His Asp  
                     50                      55                      60



Pro Gln Thr Thr Asn Leu Leu Tyr Leu Glu Leu Gly Asp Lys Pro Ala  
65 70 75 80

Pro Asn Thr Phe Tyr Val Gly Ile Tyr Ile Leu Ile Ala Val Gly Ala  
85 90 95

Val Met Met Phe Val Gly Phe Leu Gly Cys Tyr Gly Ala Ile Gln Glu  
100 105 110

Ser Gln Cys Leu Leu Gly Thr Phe Phe Thr Cys Leu Val Ile Leu Phe  
115 120 125

Ala Cys Glu Val Ala Ala Gly Ile Trp Gly Phe Val Asn Lys Asp Gln  
130 135 140

Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp Gln Ala Leu Gln Gln Ala  
145 150 155 160

Val Val Asp Asp Asp Ala Asn Asn Ala Lys Ala Val Val Lys Thr Phe  
165 170 175

His Glu Thr Leu Asp Cys Cys Gly Ser Ser Thr Leu Thr Ala Leu Thr  
180 185 190

Thr Ser Val Leu Lys Asn Asn Leu Cys Pro Ser Gly Ser Asn Ile Ile  
195 200 205

Ser Asn Leu Phe Lys Glu Asp Cys His Gln Lys Ile Asp Asp Leu Phe  
210 215 220

Ser Gly Lys Leu Tyr Leu Ile Gly Ile Ala Ala Ile Val Val Ala Val  
225 230 235 240

Ile Met Ile Phe Glu Met Ile Leu Ser Met Val Leu Cys Cys Gly Ile  
245 250 255

Arg Asn Ser Ser Val Tyr  
260

<210> 795

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 795

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Gly Val Asn Pro Gly  
1 5 10 15

Gly Gly Ala Cys Ser Glu Pro Arg Ser Cys His Cys Thr Pro Ala Trp  
20 25 30

Ala Thr Glu Arg Asp Phe Arg Leu Lys Lys Lys Xaa Xaa  
35 40 45

&lt;210&gt; 796

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 796

Phe Arg Ala Leu His Arg Gly Ala Ala Leu Asp Leu Ser Pro Leu His  
1 5 10 15

Arg Ser Pro His Pro Ser Arg Gln Ala Ile Phe Cys Trp Met Ser Phe  
20 25 30

Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu Val Gln Gln  
35 40 45

Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu Val Leu Met  
50 55 60

Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser Leu Glu Ser  
65 70 75 80

Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile Leu Gln Asn  
85 90 95

Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly His Pro Gln  
100 105 110

Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu Leu Phe Pro  
115 120 125

Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg Val Leu Leu  
130 135 140

Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp Leu Ser Leu

145                      150                      155                      160  
Leu Pro Pro Arg Ala Ala Leu Ser Thr Pro Ala Thr Thr Arg Thr Glu  
                        165                      170                      175

Thr Ser

<210> 797

<211> 219

<212> PRT

<213> Homo sapiens.

**<220>**

**<221> SITE**

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 797

Ala Gly Leu Cys Ser Ala Asp Trp Arg Pro Pro Gly Thr Glu Val Thr  
1 5 10 15

Ser Gln Gly Pro Arg Gln Pro Ser Ser Ser Gly Ala Lys Arg Arg Arg  
20 25 30

Leu Arg Ala Ala Leu Gly Pro Gln Pro Thr Arg Ser Ala Leu Arg Phe  
35 40 45

Pro Ser Ala Ser Pro Gly Ser Leu Lys Ala Lys Gln Ser Met Ala Gly  
50 55 60

Ile Xaa Gly Arg Glu Ser Asn Ala Pro Ser Val Pro Thr Val Ser Leu  
65                      70                      75                      80

Leu Pro Gly Ala Pro Gly Gly Asn Ala Ser Ser Arg Thr Glu Ala Gln  
85 90 95

Val	Pro	Asn	Gly	Gln	Gly	Ser	Pro	Gly	Gly	Cys	Val	Cys	Ser	Ser	Gln
			100					105					110		

Ala Ser Pro Ala Pro Arg Ala Ala Ala Pro Pro Arg Ala Ala Arg Gly  
115 120 125

Pro Thr Pro Arg Thr Glu Glu Ala Ala Trp Ala Ala Met Ala Leu Thr  
130 135 140

Phe Leu Leu Val Leu Leu Thr Leu Ala Thr Leu Cys Thr Arg Leu His  
145 150 155 160

Arg Asn Phe Arg Arg Gly Glu Ser Ile Tyr Trp Gly Pro Thr Ala Asp  
                   165                                  170                                  175

Ser Gln Asp Thr Val Ala Ala Val Leu Lys Arg Arg Leu Leu Gln Pro  
                   180                                  185                                  190

Ser Arg Arg Val Lys Arg Ser Arg Arg Arg Pro Leu Leu Pro Pro Thr  
                   195                                  200                                  205

Pro Asp Ser Gly Pro Glu Gly Glu Ser Ser Glu  
                   210                                  215

<210> 798

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 798

Tyr Gln Leu Lys Pro Tyr Thr Xaa His Leu Ile Lys Asp Leu His Phe  
   1                                  5                                  10                                  15

Phe Leu Arg Val Leu Ile Gln Leu Tyr His Arg Ile Pro His Lys Leu  
                   20                                  25                                  30

His Ile Ile Pro Leu Trp Asp Arg Asp Pro Ser Thr Ser Leu Leu Glu  
                   35                                  40                                  45

Gln Gly His Ile Val His Tyr Leu Ser Gln Val Leu Ile Ser Ser Pro  
                   50                                  55                                  60

Lys Asp Gln Thr Val Phe Gln His Leu Leu Leu Gln Gly Ser Val Leu  
   65                                  70                                  75                                  80

Ile Leu Ala Leu Trp Pro Cys His Met Gly Phe Lys Asp Leu Ser Arg  
                   85                                  90                                  95

His Leu Gln Cys Leu Asp Arg Phe Gln Phe Thr Glu His Arg Cys His  
                   100                                  105                                  110

Gln His Phe Lys Thr Ile Thr Met Gly Gln Gly Gly Ile Lys Met Asp  
                   115                                  120                                  125

Ser Lys Asn Ile Phe Leu Asn Val Leu  
                   130                                  135

<210> 799  
<211> 119  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 799  
Cys Phe Gly Ala Gly Gln Ser Val Ala Gly Arg Gly His Met Pro Lys  
1 5 10 15  
Ser His His Glu Leu Pro Gly Ala Ser Arg Gln Gly Pro Ser Ile Pro  
20 25 30  
His Gln Val Phe Gln His Asp Val Pro Asp Gly Arg Gln Leu Gly Leu  
35 40 45  
Xaa Ala Glu Ile Lys Ala Gly Lys Ser Leu Lys Pro Thr Pro Gln Ser  
50 55 60  
Lys Gly Leu Thr Thr Val Phe Ser Gly Ile Gly Gln Pro Ala Phe Gln  
65 70 75 80  
Val Gly Gly Pro Ser Arg Ser Leu Arg Pro Gly Phe Pro Gly Pro Arg  
85 90 95  
Pro Pro Gly Ala Gln Pro His Arg Phe Ser Leu Gln Pro Asp Ser Pro  
100 105 110  
Leu Pro Ser Val Ser Pro Ala  
115

<210> 800  
<211> 148  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 800

Gly Ser Thr His Ala Ser Gly Trp Ser Cys Val Tyr Lys Asn Asp Gln  
 1 5 10 15  
 Ala Ala Lys Asp Asn Pro Thr Lys Ser Leu Gln Glu Glu Glu Pro Cys  
 20 25 30  
 Pro Arg Phe Ala His Gln Leu Val Tyr Asp Glu Leu His Lys Val His  
 35 40 45  
 Tyr Leu Phe Gly Gly Asn Pro Gly Lys Ser Cys Ser Pro Lys Met Arg  
 50 55 60  
 Leu Asp Asp Phe Trp Ser Leu Lys Leu Cys Arg Pro Ser Lys Asp Tyr  
 65 70 75 80  
 Leu Leu Arg His Cys Lys Tyr Leu Ile Arg Lys His Xaa Phe Glu Glu  
 85 90 95  
 Lys Ala Gln Val Asp Pro Leu Ser Ala Leu Lys Tyr Leu Gln Asn Asp  
 100 105 110  
 Leu Tyr Ile Thr Val Asp His Ser Asp Pro Glu Glu Thr Lys Glu Phe  
 115 120 125  
 Gln Leu Leu Ala Ser Ala Leu Phe Lys Ser Gly Ser Arg Phe Tyr Ser  
 130 135 140  
 Ser Gly Leu Phe  
 145

<210> 801  
 <211> 214  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (214)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 801  
 Ser His Ile Gln Gly Glu Gly Ser Cys Thr Leu Phe Arg Lys Tyr Asp  
 1 5 10 15  
 His Met Arg Ala Ala Ile Leu Glu Lys Met Pro Leu Val Glu Arg Asp  
 20 25 30  
 Gly Pro Gln Ala Asp Glu Glu Ala Lys Glu Ser Lys Glu Ala Ala Gln  
 35 40 45

Leu Ser Glu Ala Ala Pro Val Pro Thr Glu Pro Gln Ala Ser Gln Leu  
 50 55 60  
 Leu Asp Leu Leu Asp Leu Leu Asp Gly Ala Ser Gly Asp Val Gln His  
 65 70 75 80  
 Pro Pro His Leu Asp Pro Ser Pro Gly Gly Ala Leu Val His Leu Leu  
 85 90 95  
 Asp Leu Pro Cys Val Pro Pro Pro Pro Ala Pro Ile Pro Asp Leu Lys  
 100 105 110  
 Val Phe Glu Arg Glu Gly Val Gln Leu Asn Leu Ser Phe Ile Arg Pro  
 115 120 125  
 Pro Glu Asn Pro Ala Leu Leu Leu Ile Thr Ile Thr Ala Thr Asn Phe  
 130 135 140  
 Ser Glu Gly Asp Val Thr His Phe Ile Cys Gln Ala Ala Val Pro Lys  
 145 150 155 160  
 Ser Leu Gln Leu Gln Leu Gln Ala Pro Ser Gly Asn Thr Val Pro Ala  
 165 170 175  
 Arg Gly Gly Leu Pro Ile Thr Gln Leu Phe Arg Ile Leu Asn Pro Asn  
 180 185 190  
 Lys Ala Pro Leu Arg Leu Lys Leu Arg Ser Leu Arg Pro Leu Ser Pro  
 195 200 205  
 Val Gly Ala Gly Asp Xaa  
 210

<210> 802  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 802  
 Lys Phe Ala Asn Leu Lys Arg Gly Val Ser Glu Asp His Tyr Leu Leu  
 1 5 10 15  
 Arg Thr Leu Lys Asn Lys Cys Leu Gln Leu Cys Met Gly Thr Ile Leu  
 20 25 30  
 Tyr Ser Leu His Phe Tyr Gly Pro Thr Ala Thr Ser Tyr Pro Cys Lys  
 35 40 45

Tyr Ile Asn  
50

<210> 803  
<211> 167  
<212> PRT  
<213> Homo sapiens

<400> 803

Ala Arg Leu Pro Gly Ser Gly Cys Cys Arg Pro Pro Val Ser Ala Arg  
1 5 10 15

Val Ala Pro Gly His Gln Gly Ala Val Gly Gly Ser Gly Arg Arg Pro  
20 25 30

Ala Arg Val Glu Val Val Asp Ala Ala Ala Arg Pro Ser Ser Arg Pro  
35 40 45

Phe Ser Leu Pro Ala Ala Ile Met Leu Ala Leu Ile Ser Arg Leu Leu  
50 55 60

Asp Trp Phe Arg Ser Leu Phe Trp Lys Glu Glu Met Glu Leu Thr Leu  
65 70 75 80

Val Gly Leu Gln Tyr Ser Gly Lys Thr Thr Phe Val Asn Val Ile Ala  
85 90 95

Ser Gly Gln Phe Ser Glu Asp Met Ile Pro Thr Val Gly Phe Asn Met  
100 105 110

Arg Lys Val Thr Lys Gly Asn Val Thr Ile Lys Ile Trp Asp Ile Gly  
115 120 125

Gly Gln Pro Arg Phe Arg Ser Met Trp Glu Arg Tyr Cys Arg Gly Val  
130 135 140

Asn Ala Ile Val Tyr Met Ile Asp Ala Ala Asp Arg Glu Lys Ile Glu  
145 150 155 160

Ala Ser Arg Asn Glu Leu Thr  
165

<210> 804  
<211> 361  
<212> PRT  
<213> Homo sapiens



&lt;400&gt; 804

Ala Arg Ser Arg Asp Gly Ala Pro Glu Arg Arg Glu Pro Gly Leu Gly  
 1 5 10 15

Val Leu Leu Arg Glu Glu Glu Trp Ser Arg Gly Asp Ala Ala Ala Ala  
 20 25 30

Leu Thr Met Ser Phe Leu Gly Gly Phe Phe Gly Pro Ile Cys Glu Ile  
 35 40 45

Asp Ile Val Leu Asn Asp Gly Glu Thr Arg Lys Met Ala Glu Met Lys  
 50 55 60

Thr Glu Asp Gly Lys Val Glu Lys His Tyr Leu Phe Tyr Asp Gly Glu  
 65 70 75 80

Ser Val Ser Gly Lys Val Asn Leu Ala Phe Lys Gln Pro Gly Lys Arg  
 85 90 95

Leu Glu His Gln Gly Ile Arg Ile Glu Phe Val Gly Gln Ile Glu Leu  
 100 105 110

Phe Asn Asp Lys Ser Asn Thr His Glu Phe Val Asn Leu Val Lys Glu  
 115 120 125

Leu Ala Leu Pro Gly Glu Leu Thr Gln Ser Arg Ser Tyr Asp Phe Glu  
 130 135 140

Phe Met Gln Val Glu Lys Pro Tyr Glu Ser Tyr Ile Gly Ala Asn Val  
 145 150 155 160

Arg Leu Arg Tyr Phe Leu Lys Val Thr Ile Val Arg Arg Leu Thr Asp  
 165 170 175

Leu Val Lys Glu Tyr Asp Leu Ile Val His Gln Leu Ala Thr Tyr Pro  
 180 185 190

Asp Val Asn Asn Ser Ile Lys Met Glu Val Gly Ile Glu Asp Cys Leu  
 195 200 205

His Ile Glu Phe Glu Tyr Asn Lys Ser Lys Tyr His Leu Lys Asp Val  
 210 215 220

Ile Val Gly Lys Ile Tyr Phe Leu Leu Val Arg Ile Lys Ile Gln His  
 225 230 235 240

Met Glu Leu Gln Leu Ile Lys Lys Glu Ile Thr Gly Ile Gly Pro Ser  
 245 250 255

Thr Thr Thr Glu Thr Glu Thr Ile Ala Lys Tyr Glu Ile Met Asp Gly  
 260 265 270

Ala Pro Val Lys Gly Glu Ser Ile Pro Ile Arg Leu Phe Leu Ala Gly  
275 280 285

Tyr Asp Pro Thr Pro Thr Met Arg Asp Val Asn Lys Lys Phe Ser Val  
290 295 300

Arg Tyr Phe Leu Asn Leu Val Leu Val Asp Glu Glu Asp Arg Ser Ser  
305 310 315 320

Phe Lys Gln Gln Glu Ile Ile Leu Trp Arg Lys Ala Pro Glu Lys Leu  
325 330 335

Arg Lys Gln Arg Thr Asn Phe His Gln Arg Phe Glu Ser Pro Glu Ser  
340 345 350

Gln Ala Ser Ala Glu Gln Pro Glu Met  
355 360

<210> 805

<211> 92

<212> PRT

<213> Homo sapiens

<400> 805

Ala Ala Pro Pro Ala Leu Arg Thr Trp Pro Arg Lys Ala Glu Trp Pro  
1 5 10 15

Ala Gly Ala Pro Gln Gly Trp Arg Pro Arg Ser Leu Ser Val Thr His  
20 25 30

Ser Thr Thr Arg Cys Pro Leu Val Gly Val Arg Ala Glu Gly Leu Arg  
35 40 45

His Ala Thr Ala Pro Leu Glu Leu Gly Thr Thr Asp Trp Thr Gly Ser  
50 55 60

Leu His Ala Gln Pro Pro Glu Thr Gly Thr Pro Ser Leu Lys Gly Pro  
65 70 75 80

Arg Arg Gln Val Asp Lys Lys Val Glu Lys Gly Val  
85 90

<210> 806

<211> 271

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 806

Xaa Gly Phe Pro Ala Pro Leu Pro Pro Thr Arg Met Met Glu Ser Lys  
 1 5 10 15

Met Ile Ala Ala Ile His Ser Ser Ser Ala Asp Ala Thr Ser Ser Ser  
 20 25 30

Asn Tyr His Ser Phe Val Thr Ala Ser Ser Thr Ser Val Asp Asp Ala  
 35 40 45

Leu Pro Leu Pro Leu Pro Val Pro Gln Pro Lys His Ala Ser Gln Lys  
 50 55 60

Thr Val Tyr Ser Ser Phe Ala Arg Pro Asp Val Thr Thr Glu Pro Phe  
 65 70 75 80

Gly Pro Asp Asn Cys Leu His Phe Asn Met Thr Pro Asn Cys Gln Tyr  
 85 90 95

Arg Pro Gln Ser Val Pro Pro His His Asn Lys Leu Glu Gln His Gln  
 100 105 110

Val Tyr Gly Ala Arg Ser Glu Pro Pro Ala Ser Met Gly Leu Arg Tyr  
 115 120 125

Asn Thr Tyr Val Ala Pro Gly Arg Asn Ala Ser Gly His His Ser Lys  
 130 135 140

Pro Cys Ser Arg Val Glu Tyr Val Ser Ser Leu Ser Ser Ser Val Arg  
 145 150 155 160

Asn Thr Cys Tyr Pro Glu Asp Ile Pro Pro Tyr Pro Thr Ile Arg Arg  
 165 170 175

Val Gln Ser Leu His Ala Pro Pro Ser Ser Met Ile Arg Ser Val Pro  
 180 185 190

Ile Ser Arg Thr Glu Val Pro Pro Asp Asp Glu Pro Ala Tyr Cys Pro  
 195 200 205

Arg Pro Leu Tyr Gln Tyr Lys Pro Tyr Gln Ser Ser Gln Ala Arg Ser  
 210 215 220

Asp Tyr His Val Thr Gln Leu Gln Pro Tyr Phe Glu Asn Gly Arg Val  
 225 230 235 240

His Tyr Arg Tyr Ser Pro Tyr Ser Ser Ser Ser Ser Tyr Tyr Ser  
245 250 255

Pro Asp Gly Ala Leu Cys Asp Val Asp Ala Tyr Gly Gln Ser Ser  
260 265 270

<210> 807

<211> 56

<212> PRT

<213> Homo sapiens

<400> 807

Asn Asn Thr Phe His Asn Gln Asn Phe Asn Ser Lys Tyr Lys Ile Lys  
1 5 10 15

Phe Ile Leu Asn Asn Glu Asn Val Phe Val Leu Asn Leu Val Thr Arg  
20 25 30

Glu His Arg Asn Lys Ile His Glu Thr Lys Val Ala Arg Asn Val Arg  
35 40 45

Thr Gly Gly Asn Val Tyr Ile Ile  
50 55

<210> 808

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 808

Val Cys Ala Xaa His Gly His Gly Arg Glu Leu Phe Gln Tyr Met Leu  
1 5 10 15

Gln Lys Glu Arg Val Glu Pro His Gln Leu Ala Ile Asp Arg Pro Ser  
20 25 30

Gln Lys Leu Leu Lys Phe Leu Asn Lys His Tyr Asn Leu Glu Thr Thr  
 35 40 45

Val Pro Gln Val Asn Asn Phe Val Ile Phe Glu Gly Phe Phe Ala His  
 50 55 60

Gln His Pro Pro Ala Arg Lys Leu Pro Pro Lys Arg Ala Glu Gly Asp  
 65 70 75 80

Ile Lys Pro Tyr Ser Ser Ser Asp Arg Glu Phe Leu Lys Val Ala Val  
 85 90 95

Glu Pro Pro Trp Pro Leu Asn Arg Ala Xaa Arg Arg Ala Thr Pro Pro  
 100 105 110

Ala His Pro Pro Pro Arg Ser Ser Ser Leu Gly Asn Ser Pro Glu Arg  
 115 120 125

Gly Pro Leu Arg Pro Phe Val Pro Glu Gln Glu Leu Leu Arg Ser Leu  
 130 135 140

Arg Leu Cys Pro Pro His Pro Thr Ala Arg Leu Leu Leu Ala Ala Asp  
 145 150 155 160

Pro Gly Gly Ser Pro Ala Gln Arg Arg Arg Thr Ser Ser Leu Pro Arg  
 165 170 175

Ser Glu Glu Ser Arg Tyr  
 180

<210> 809

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 809

Pro Ala Gly Glu Ser Ser Pro Ala Pro Trp Leu Lys Gly Pro Gly Ala  
 1 5 10 15

His Leu Pro Glu Ala Arg Cys Gly Gly Gly Pro Arg Gly Arg Ser Gln  
 20 25 30

Ala Gln Ser Pro Gln Ser Ser Gly Pro Val Gly Gly Arg Gly Arg Ser  
 35 40 45

Gly Ser Lys Ala Arg Thr Pro Gln Leu Phe Arg Leu Gln Gln Gln Leu  
 50 55 60

Gln Arg Phe Gly His Gly Cys Xaa Val Pro Arg Cys Trp Leu Gln Ala  
 65 70 75 80

Ala Arg Glu His Pro Gly Gln Gly Gln Glu Ala Gln Ser Glu Glu Glu  
 85 90 95

Gly Glu Gly Gln Glu Gly Glu Gly Gln Glu Glu Gly Gly Ser Pro Leu  
 100 105 110

Lys Gly Leu Asp Lys Ala His  
 115

<210> 810  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 810  
 Asp Ala Gly Cys Gly Arg Pro Pro Glu Pro Ala Gly Gly Gly Gln Ala  
 1 5 10 15

Ala Ala Ala Thr Glu Gly Gly Xaa Leu Ser Leu Gly Leu Gly Cys Arg  
 20 25 30

Gln Leu Gly Leu Leu Pro Gly Pro Ala Tyr Thr Ala Pro Pro Val Gly  
 35 40 45

Val Thr Val Gly Tyr Ser Gln Ala Gly Phe Leu Pro Cys Arg Thr Leu  
 50 55 60

Ser Leu Pro Pro Ala Cys Ser Trp Arg Leu Leu Pro Arg Gly Arg Leu  
 65 70 75 80

Phe Cys Leu Leu Lys Trp Val Cys Cys Thr Leu Thr Gly Gln Gly Gln  
 85 90 95

Ser Leu Gly Ala Val Leu Trp Pro Arg Val Gly Thr Cys Leu Asp Gln  
 100 105 110

Asn Glu Arg Thr Gly Ser Gln Thr Arg Leu Gly Val Leu Ile Leu Gly

115 120 125  
Trp Thr Arg Leu Trp Ile Gln Arg Arg Gly Leu Val Ser Asn Lys Ser  
130 135 140

<210> 811  
<211> 154  
<212> PRT  
<213> Homo sapiens

<400> 811  
His Glu Asp Asn Glu His Lys Arg Ser Leu Thr Lys Thr Pro Ala Arg  
1 5 10 15  
Lys Ser Ala His Val Thr Val Ser Gly Gly Thr Gln Lys Gly Glu Ala  
20 25 30  
Val Leu Gly Thr His Lys Leu Lys Thr Ile Thr Gly Asn Ser Ala Ala  
35 40 45  
Val Ile Thr Pro Phe Lys Leu Thr Thr Glu Ala Thr Gln Thr Pro Val  
50 55 60  
Ser Asn Lys Lys Pro Val Phe Asp Leu Lys Ala Ser Leu Ser Arg Pro  
65 70 75 80  
Leu Asn Tyr Glu Pro His Lys Gly Lys Leu Lys Pro Trp Gly Gln Ser  
85 90 95  
Lys Glu Asn Asn Tyr Leu Asn Gln His Val Asn Arg Ile Asn Phe Tyr  
100 105 110  
Lys Lys Thr Tyr Lys Gln Pro His Leu Gln Thr Lys Glu Glu Gln Arg  
115 120 125  
Lys Lys Arg Glu Gln Glu Arg Lys Glu Lys Lys Ala Lys Val Leu Gly  
130 135 140  
Met Arg Arg Gly Leu Ile Leu Ala Glu Asp  
145 150

<210> 812  
<211> 86  
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 812

Asn Arg Ser Phe Phe Val Ser Pro Phe Lys Ser Thr Gly Phe Lys Arg  
1 5 10 15

Gly Lys Cys Ile His Arg Pro Gln Cys Leu Ala Phe Ser Ser Ala Ser  
20 25 30

Thr Trp Ser Thr Gly Leu Asp Ala Gln Thr Tyr Leu Gly Asn Tyr Phe  
35 40 45

Gly Arg Cys Leu Ser Leu Tyr Arg Asn Cys Ser Trp Tyr Phe Ile Leu  
50 55 60

Leu Tyr Ile Tyr Ser Thr Cys Pro Leu Val Phe Asn Tyr Xaa Gln Ser  
65 70 75 80

Leu Phe Arg Ser Lys Asn  
85

<210> 813

<211> 566

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (341)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 813

Arg Glu Leu Val Thr Asp Gly Gly Ala Ala Ser Pro Trp Arg Cys Asn  
1 5 10 15

Trp Glu Gln Leu Leu Asn Pro Arg Pro Ser Glu Ala Asp Pro Glu Ala  
20 25 30

Asp Pro Glu Glu Ala Thr Ala Ala Arg Val Ile Asp Arg Phe Asp Glu  
35 40 45

Gly Glu Asp Gly Glu Gly Asp Phe Leu Val Val Gly Ser Ile Arg Lys  
50 55 60



Leu Ala Ser Ala Ser Leu Leu Asp Thr Asp Lys Arg Tyr Cys Gly Lys  
 65 70 75 80

Thr Thr Ser Arg Lys Ala Trp Asn Glu Asp His Trp Glu Gln Thr Leu  
 85 90 95

Pro Gly Ser Ser Asp Glu Glu Ile Ser Asp Glu Glu Gly Ser Gly Asp  
 100 105 110

Glu Asp Ser Glu Gly Leu Gly Leu Glu Glu Tyr Asp Glu Asp Asp Leu  
 115 120 125

Gly Ala Ala Glu Glu Gln Glu Cys Gly Asp His Arg Glu Ser Lys Lys  
 130 135 140

Ser Arg Ser His Ser Ala Lys Thr Pro Gly Phe Ser Val Gln Ser Ile  
 145 150 155 160

Ser Asp Phe Glu Lys Phe Thr Lys Gly Met Asp Asp Leu Gly Ser Ser  
 165 170 175

Glu Glu Glu Glu Asp Glu Glu Ser Gly Met Glu Glu Gly Asp Asp Ala  
 180 185 190

Glu Asp Ser Gln Gly Glu Ser Glu Glu Asp Arg Ala Gly Asp Arg Asn  
 195 200 205

Ser Glu Asp Asp Gly Val Val Met Thr Phe Ser Ser Val Lys Val Ser  
 210 215 220

Glu Glu Val Glu Lys Gly Arg Ala Val Lys Asn Gln Ile Ala Leu Trp  
 225 230 235 240

Asp Gln Leu Leu Glu Gly Arg Ile Lys Leu Gln Lys Ala Leu Leu Thr  
 245 250 255

Thr Asn Gln Leu Pro Gln Pro Asp Val Phe Pro Leu Phe Lys Asp Lys  
 260 265 270

Gly Gly Pro Glu Phe Ser Ser Ala Leu Lys Asn Ser His Lys Ala Leu  
 275 280 285

Lys Ala Leu Leu Arg Ser Leu Val Gly Leu Gln Glu Glu Leu Leu Phe  
 290 295 300

Gln Tyr Pro Asp Thr Arg Tyr Leu Val Asp Gly Thr Lys Pro Asn Ala  
 305 310 315 320

Gly Ser Glu Glu Ile Ser Ser Glu Asp Asp Glu Leu Val Glu Glu Lys  
 325 330 335

Lys Gln Gln Arg Xaa Arg Val Pro Ala Lys Arg Lys Leu Glu Met Glu  
340 345 350

Asp Tyr Pro Ser Phe Met Ala Lys Arg Phe Ala Asp Phe Thr Val Tyr  
355 360 365

Arg Asn Arg Thr Leu Gln Lys Trp His Asp Lys Thr Lys Leu Ala Ser  
370 375 380

Gly Lys Leu Gly Lys Gly Phe Gly Ala Phe Glu Arg Ser Ile Leu Thr  
385 390 395 400

Gln Ile Asp His Ile Leu Met Asp Lys Glu Arg Leu Leu Arg Arg Thr  
405 410 415

Gln Thr Lys Arg Ser Val Tyr Arg Val Leu Gly Lys Pro Glu Pro Ala  
420 425 430

Ala Gln Pro Val Pro Glu Ser Leu Pro Gly Glu Pro Glu Ile Leu Pro  
435 440 445

Gln Ala Pro Ala Asn Ala His Leu Lys Asp Leu Asp Glu Glu Ile Phe  
450 455 460

Asp Asp Asp Asp Phe Tyr His Gln Leu Leu Arg Glu Leu Ile Glu Arg  
465 470 475 480

Lys Thr Ser Ser Leu Asp Pro Asn Asp Gln Val Ala Met Gly Arg Gln  
485 490 495

Trp Leu Ala Ile Gln Lys Leu Arg Ser Lys Ile His Lys Lys Val Asp  
500 505 510

Arg Lys Ala Ser Lys Gly Arg Lys Leu Arg Phe His Val Leu Ser Lys  
515 520 525

Leu Leu Ser Phe Met Ala Pro Ile Asp His Thr Thr Met Asn Asp Asp  
530 535 540

Ala Arg Thr Glu Leu Tyr Arg Ser Leu Phe Gly Gln Leu His Pro Pro  
545 550 555 560

Asp Glu Gly His Gly Asp  
565

&lt;210&gt; 814

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 814

Ala Tyr Thr Thr Met Thr Glu Asn Lys Arg Leu Phe Phe Glu Thr Pro  
1 5 10 15

Ser Gln Lys Gln Asn Lys Thr Lys Lys Leu Asp Lys Cys Tyr Ile Asn  
20 25 30

Val Trp Val Val Arg Phe Tyr Phe Glu Ser Glu Val Cys Arg Tyr Ala  
35 40 45

Tyr Arg Phe Leu Glu Phe Thr Thr Phe Leu Phe Cys Ile Ile Asn Val  
50 55 60

Ile Phe  
65

&lt;210&gt; 815

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 815

Glu Lys Glu Val Trp Arg Arg Lys Pro Arg Leu Glu Asn Ile Met Phe  
1 5 10 15

Trp Leu Glu Ile Arg Thr Arg Asp Gly Lys Tyr Gln Cys Val Gln Met  
20 25 30

Tyr Phe Thr Glu Phe Glu Gly Thr His Asn Gln Glu Gly Lys Gln Phe  
35 40 45

Val Leu His Trp Thr Tyr Tyr Leu Asp Leu Gly Glu Gln Gln Asn Gly  
50 55 60

Met Trp Ser Val Arg Ser Ile Leu Phe Val Leu Leu Ser Leu Met  
65 70 75

&lt;210&gt; 816

&lt;211&gt; 227

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 816

Ala Cys His Glu Lys Val Val Asn Ile Gln Lys Asp Pro Gly Glu Ser  
1 5 10 15

Leu Gly Met Thr Val Ala Gly Gly Ala Ser His Arg Xaa Trp Asp Leu  
20 25 30

Pro Ile Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile Ser Arg Asp  
35 40 45

Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp Gly Val Glu  
50 55 60

Leu Thr Glu Val Ser Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr  
65 70 75 80

Ser Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro  
85 90 95

Gln Glu Xaa Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met  
100 105 110

Ala Pro Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu  
115 120 125

Pro Arg Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr  
130 135 140

Ala Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn  
145 150 155 160

Gly Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala  
165 170 175

Tyr Asn Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn  
180 185 190

Gly Arg Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu  
195 200 205

Lys Glu Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly  
210 215 220

Thr Phe Leu  
225

<210> 817  
<211> 200  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (150)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 817  
Pro Arg Val Arg Gly His Gln Gly Leu Leu Ala Pro Leu Gly Pro Gln  
1 5 10 15

Pro Leu Leu Gly His Pro Met Pro Gly Ser Pro Ser Met Glu Thr His  
20 25 30

Cys Cys Pro Thr Pro Ser Leu Arg Pro Thr Thr Thr Gly Pro Arg Xaa  
35 40 45

Pro Thr Gly Pro Pro Gly Xaa Pro Gly Pro Met Gly Pro Pro Gly Pro  
50 55 60

Pro Gly Pro Thr Gly Val Pro Gly Ser Pro Gly His Ile Gly Pro Pro  
65 70 75 80

Gly Pro Thr Gly Pro Lys Gly Ile Ser Gly His Pro Gly Glu Lys Gly  
85 90 95

Glu Arg Gly Leu Arg Gly Glu Pro Gly Pro Gln Gly Ser Ala Gly Ala  
100 105 110

Ala Gly Gly Thr Gly Pro Lys Gly Asp Pro Gly Glu Lys Ser His Trp  
115 120 125

Ala Pro Ser Leu Gln Ser Phe Leu Gln Gln Gln Ala Gln Leu Glu Leu  
130 135 140

Leu Ala Arg Arg Val Xaa Leu Leu Glu Ala Ile Ile Trp Pro Glu Pro  
145 150 155 160

Glu Leu Gly Ser Gly Ala Gly Pro Ala Gly Thr Gly Thr Pro Ser Leu  
165 170 175

Leu Arg Gly Lys Arg Gly Gly His Ala Thr Asn Tyr Arg Ile Val Ala  
180 185 190

Pro Arg Ser Arg Asp Glu Arg Gly  
195 200

<210> 818

<211> 85

<212> PRT

<213> Homo sapiens

<400> 818

Glu Lys Leu Asp Glu Tyr Ile Tyr Arg His Phe Phe Gly His Thr Phe  
1 5 10 15

Ser Pro Pro Tyr Gly Pro Ser Arg Pro Asp Lys Lys Gln Arg Met Val  
20 25 30

Asn Ile Glu Asn Ser Arg His Arg Lys Gln Glu Gln Lys His Leu Gln  
35 40 45

Pro Gln Pro Tyr Lys Arg Glu Gly Lys Trp His Lys Tyr Gly Arg Thr  
50 55 60

Asn Gly Arg Gln Met Ala Asn Leu Glu Ile Glu Leu Gly Gln Leu Pro  
65 70 75 80

Phe Asp Pro Gln Tyr  
85

<210> 819

<211> 67

<212> PRT

<213> Homo sapiens

<400> 819

Leu Gln Ser Gly Phe Ile Arg Tyr Cys Pro Ala Arg Lys Phe Pro Phe  
1 5 10 15

Cys Val Trp Leu Glu Gln Pro Ala Gly Thr Glu Trp Ile Leu Glu Glu  
20 25 30

Gly Val Thr Thr Gly Pro Pro Arg Lys Pro Arg Ala Asp Ile Tyr Asn  
35 40 45

Leu Arg Ser Pro Asp Glu Phe Ile Val Gly Gln Asn Gln Ala Leu Ile  
50 55 60

Glu Pro Gly  
65

<210> 820

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 820

Leu Thr Gly Ser Glu Leu Met Cys Arg Val Pro Ser Pro Lys Val Asn  
1 5 10 15

Leu Glu Pro Leu Asp Asn Thr Asn Lys Asn Ile Tyr Phe Thr Ser Val  
20 25 30

Ile Tyr Leu Glu Asn Xaa Leu Ser Ile Leu His Ile Phe Leu Ile Lys  
35 40 45

Ser Thr Gly Asp His Cys Glu Val Xaa Ile Leu Xaa  
50 55 60

<210> 821

<211> 259

<212> PRT

<213> Homo sapiens

&lt;400&gt; 821

Leu Ser Leu Ser Leu Leu Ser Pro Gln Leu Asp Tyr His Arg Gly Leu  
 1 5 10 15

Leu Val Asp Arg Pro Ser Glu Thr Lys Thr Glu Glu Gln Gly Ile Pro  
 20 25 30

Arg Pro Leu His Pro Pro Pro Pro Pro Pro Val Gln Pro Pro Gln His  
 35 40 45

Pro Arg Ala Glu Gln Arg Glu Gln Glu Arg Ala Val Arg Glu Gln Trp  
 50 55 60

Ala Glu Arg Glu Arg Glu Met Glu Arg Arg Glu Arg Thr Arg Ser Glu  
 65 70 75 80

Arg Glu Trp Asp Arg Asp Lys Val Arg Glu Gly Pro Arg Ser Arg Ser  
 85 90 95

Arg Ser Arg Asp Arg Arg Arg Lys Glu Arg Ala Lys Ser Lys Glu Lys  
 100 105 110

Lys Ser Glu Lys Lys Glu Lys Ala Gln Glu Glu Pro Pro Ala Lys Leu  
 115 120 125

Leu Asp Asp Leu Phe Arg Lys Thr Lys Ala Ala Pro Cys Ile Tyr Trp  
 130 135 140

Leu Pro Leu Thr Asp Ser Gln Ile Val Gln Lys Glu Ala Glu Arg Ala  
 145 150 155 160

Glu Arg Ala Lys Glu Arg Glu Lys Arg Arg Lys Glu Gln Glu Glu Glu  
 165 170 175

Glu Gln Lys Glu Arg Glu Lys Glu Ala Glu Arg Glu Arg Asn Arg Gln  
 180 185 190

Leu Glu Arg Glu Lys Arg Arg Glu His Ser Arg Glu Arg Asp Arg Glu  
 195 200 205

Arg Glu Arg Glu Arg Glu Arg Asp Arg Gly Asp Arg Asp Arg Asp Arg  
 210 215 220

Glu Arg Asp Arg Glu Arg Gly Arg Glu Arg Asp Arg Arg Asp Thr Lys  
 225 230 235 240

Arg His Ser Arg Ser Arg Ser Arg Ser Thr Pro Val Arg Asp Arg Gly  
 245 250 255

Gly Arg Arg



<210> 822  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 822  
Ile Asn Pro Ala Leu Leu Arg Lys Gly Asn Leu Phe Arg Gln Ser Gly  
1 5 10 15  
Lys Gly Val Leu Arg Lys Leu Ser Phe Phe Ile Pro Ser Phe Leu Pro  
20 25 30  
Thr Thr Val Thr Gly Tyr Arg Gly Leu Trp Thr Leu Lys Thr Asn Val  
35 40 45  
Trp Pro Leu Thr Gly Leu Ile Cys Ile Phe Leu  
50 55

<210> 823  
<211> 175  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (133)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 823  
Ser Trp Lys Thr Gly Glu Asp Lys Ser Met Ser Ser Leu Pro Gly Cys  
1 5 10 15  
Ile Gly Leu Asp Ala Ala Thr Ala Thr Val Glu Ser Glu Glu Ile Ala  
20 25 30  
Glu Leu Gln Gln Ala Val Val Glu Glu Leu Gly Ile Ser Met Glu Glu  
35 40 45  
Leu Arg His Phe Ile Asp Glu Glu Leu Glu Lys Met Asp Cys Val Gln  
50 55 60

Gln Arg Lys Lys Gln Leu Ala Glu Leu Glu Thr Trp Val Ile Gln Lys  
 65 70 75 80  
 Glu Ser Glu Val Ala His Val Asp Gln Leu Phe Asp Asp Ala Ser Arg  
 85 90 95  
 Ala Val Thr Asn Cys Glu Ser Leu Val Lys Asp Phe Tyr Ser Lys Leu  
 100 105 110  
 Gly Leu Gln Tyr Arg Asp Ser Ser Ser Glu Asp Glu Ser Ser Arg Xaa  
 115 120 125  
 Thr Glu Ile Ile Xaa Ile Pro Asp Glu Asp Asp Asp Val Leu Ser Ile  
 130 135 140  
 Asp Ser Gly Asp Ala Gly Ser Arg Thr Pro Lys Asp Gln Lys Leu Arg  
 145 150 155 160  
 Glu Ala Met Ala Ala Leu Arg Lys Ser Ala Gln Asp Val Gln Lys  
 165 170 175

<210> 824

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 824

His Lys Leu Asn Pro Met Tyr Leu Lys Leu Leu Gln Ser Phe Pro Leu  
 1 5 10 15  
 Tyr Phe Lys Gln Gln Lys Ser Gly Gly His Ile Val Val Leu Ser Phe  
 20 25 30  
 Lys Leu Cys Xaa Lys Phe Asn His Tyr Phe Asp Ala Leu Asn Ile Leu  
 35 40 45  
 Met Cys Asn Ile Cys Phe Cys Ile Lys Asn Thr His Ile Phe Gln Glu  
 50 55 60  
 Lys Glu Ile Met Leu Asn Ser Pro Val Leu Arg Lys Ile Phe Met Lys  
 65 70 75 80  
 His Leu Asn Leu Lys Ile Lys Ser Lys Leu

85

90

&lt;210&gt; 825

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

Ser Arg Arg Lys Met Ala Val Leu Ser Lys Glu Tyr Gly Phe Val Leu  
1 5 10 15

Leu Thr Gly Ala Ala Ser Phe Ile Met Val Ala His Leu Ala Ile Asn  
20 25 30

Val Ser Lys Ala Arg Lys Lys Tyr Lys Val Glu Tyr Pro Ile Met Tyr  
35 40 45

Ser Thr Asp Pro Glu Asn Gly His Ile Phe Asn Cys Ile Gln Arg Ala  
50 55 60

His Gln Asn Thr Leu Glu Val Tyr Pro Pro Phe Leu Phe Phe Leu Ala  
65 70 75 80

Val Gly Gly Val Tyr His Pro Arg Ile Ala Ser Gly Leu Gly Leu Ala  
85 90 95

Trp Ile Val Gly Arg Val Leu Tyr Ala Tyr Gly Tyr Tyr Thr Gly Glu  
100 105 110

Pro Ser Lys Arg Ser Arg Gly Ala Leu Gly Ser Ile Ala Leu Leu Gly  
115 120 125

Leu Val Gly Thr Thr Val Cys Ser Ala Phe Gln His Leu Gly Trp Val  
130 135 140

Lys Ser Gly Leu Gly Ser Gly Pro Lys Cys Cys His  
145 150 155

&lt;210&gt; 826

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 826

Ser Leu Thr Ser Tyr His Asn Gln Thr Phe Cys Ala Cys Ala Ile Val  
 1 5 10 15

Ala Ala Ile Xaa Ser Phe Gly Trp Asn Thr Val Lys Ile Asp Met Ser  
 20 25 30

Ala Ala Arg Arg Asp Pro Leu Pro Ile Val Pro Phe Gly Leu Ala Ala  
 35 40 45

Phe Ala Thr Thr Leu Phe Ala Leu Gly Leu Ala Leu Gly Thr Thr Ile  
 50 55 60

Ala Val Gly Met Leu Phe Phe Ile Gln Met Lys Ile Ile Leu Arg Asn  
 65 70 75 80

Lys Thr Ser Ile Glu Ser Trp Ile Glu Glu Lys Ala Lys Asp Arg Ile  
 85 90 95

Gln Tyr Tyr Gln Leu Asp Glu Val Phe Val Phe Pro Tyr Asp Met Gly  
 100 105 110

Ser Arg Trp Arg Asn Phe Lys Gln Val Phe Thr Trp Ser Gly Val Pro  
 115 120 125

Glu Gly Asp Gly Leu Glu Trp Pro Val Arg Glu Gly Cys His Gln Tyr  
 130 135 140

Ser Leu Thr Ile Glu Gln Leu Lys Gln Lys Ala Asp Lys Arg Val Arg  
 145 150 155 160

Ser Val Arg Tyr Lys Val Ile Glu Asp Tyr Ser Gly Ala Cys Cys Pro  
 165 170 175

Leu Asn Lys Gly Ile Lys Thr Phe Phe Thr Ser Pro Cys Thr Glu Glu  
 180 185 190

Pro Arg Ile Gln Leu Gln Lys Gly Glu Phe Ile Leu Ala Thr Arg Gly  
 195 200 205

Leu Arg Tyr Trp Leu Tyr Gly Asp Lys Ile Leu Asp Asp Ser Phe Ile  
 210 215 220

Glu Gly Val Ser Arg Ile Arg Gly Trp Phe Pro Arg Lys Cys Val Glu  
 225 230 235 240

Lys Cys Pro Cys Asp Ala Glu Thr Asp Gln Ala Pro Glu Gly Glu Lys  
 245 250 255

Lys Asn Arg

<210> 827  
<211> 88  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 827  
Glu Pro Trp Xaa Leu Leu Lys Ser Leu Leu Cys Arg Arg Ser Pro Ser  
1 5 10 15

Arg Thr Xaa Lys Gln Glu Glu Asp Arg Ala Thr Xaa Glu Ala Lys Asn  
20 25 30

Gly Glu Lys Ala Arg Arg Xaa Ser Xaa Glu Val Asp Gly Gln His Pro  
35 40 45

Ala Gln Glu Glu Val Pro Glu Ser Pro Gln Thr Ser Gly Pro Glu Gln  
50 55 60

Lys Ile Gly Val Gly Ala Pro Gly Arg Lys Ser Gln Leu Glu Arg Lys  
65 70 75 80

Gln Xaa Trp Lys Arg Leu Gln Arg  
85

<210> 828

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 828

Leu Pro Gly Val Phe Lys Met Ala Ala Ser Met His Gly Xaa Pro Ser  
1 5 10 15

Pro Ser Leu Glu Asp Ala Lys Leu Arg Arg Pro Met Val Ile Glu Ile  
20 25 30

Ile Glu Lys Asn Phe Asp Tyr Leu Arg Lys Glu Met Thr Gln Asn Ile  
35 40 45

Tyr Gln Met Ala Thr Phe Gly Thr Thr Ala Gly Phe Ser Gly Ile Phe  
50 55 60

Ser Asn Phe Leu Phe Arg Arg Cys Phe Lys Val Lys His Asp Ala Leu  
65 70 75 80

Lys Thr Tyr Ala Ser Leu Ala Thr Leu Pro Phe Leu Ser Thr Val Val  
85 90 95

Thr Asp Lys Leu Phe Val Ile Asp Ala Leu Tyr Ser Asp Asn Ile Ser  
100 105 110

Lys Glu Asn Cys Val Phe Arg Ser Ser Leu Ile Gly Ile Val Cys Gly  
115 120 125

Val Phe Tyr Pro Ser Ser Leu Ala Phe Thr Lys Asn Gly Arg Leu Ala  
130 135 140

Thr Lys Tyr His Thr Val Pro Leu Pro Pro Lys Gly Arg Val Leu Ile  
145 150 155 160

His Trp Met Thr Leu Cys Gln Thr Gln Met Lys Leu Met Ala Ile Pro

165

170

175

Leu Val Phe Gln Ile Met Phe Gly Ile Leu Asn Gly Leu Tyr His Tyr  
180 185 190

Ala Val Phe Glu Glu Thr Leu Glu Lys Thr Ile His Glu Glu  
195 200 205

&lt;210&gt; 829

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 829

Tyr Asn Ile Trp Phe Val Asn Ser Glu Thr Leu Pro Val Cys Leu Leu  
1 5 10 15

Leu Ser Ile Glu Leu Val Phe Ser Phe Ser Trp Leu Ser Ser Cys Leu  
20 25 30

Leu Ile Leu Ser His Met Leu Pro Ser Leu Leu Val Pro Ser Ser Leu  
35 40 45

Leu Tyr Phe Thr Arg Phe Gly Thr Cys Ser Pro Leu Asp Phe Phe Phe  
50 55 60

Asn Ile Leu Ala Phe Pro Arg Cys Lys Ser Leu Pro Pro Cys  
65 70 75

&lt;210&gt; 830

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 830

Arg Phe Gly Arg Arg Thr Gly Arg Arg Trp Arg Arg Thr Thr Gly Gly  
1 5 10 15

Ala Glu Gly Val Arg Gly Gly Asp Gly Arg Arg Gly Gly Pro Gly Pro  
20 25 30

Leu Leu Ser Arg Val Gly Arg Leu Gly Leu Ala Asp Arg Ala Arg Ala  
35 40 45

Phe Tyr Glu Asp Gly Gly Asp Glu Asp Ile Val Thr Ile Ser Gln Ala  
50 55 60

Thr Pro Ser Ser Val Ser Arg Gly Thr Ala Pro Ser Asp Asn Arg Val  
 65 70 75 80

Thr Ser Phe Arg Asp Leu Ile His Asp Gln Asp Glu Asp Glu Glu Glu  
 85 90 95

Glu Glu Gly Gln Arg  
 100

<210> 831

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 831

Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser  
 1 5 10 15

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile  
 20 25 30

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser  
 35 40 45

Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Xaa  
 50 55 60

Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys  
 65 70 75 80

Asp Val Leu Asn Ser Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys  
 85 90 95

Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro  
 100 105 110

Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser  
 115 120 125

Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val  
 130 135 140

Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr  
 145 150 155



<210> 832  
<211> 238  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (221)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 832  
Tyr His Leu Tyr Phe Lys Met Gly Asp Pro Asn Ser Arg Lys Lys Gln  
1 5 10 15  
Ala Leu Asn Arg Leu Arg Ala Gln Leu Arg Lys Lys Lys Glu Ser Leu  
20 25 30  
Ala Asp Gln Phe Asp Phe Lys Met Tyr Ile Ala Phe Val Phe Lys Glu  
35 40 45  
Lys Lys Lys Lys Ser Ala Leu Phe Glu Val Ser Glu Val Ile Pro Val  
50 55 60  
Met Thr Asn Asn Tyr Glu Glu Asn Ile Leu Lys Gly Val Arg Asp Ser  
65 70 75 80  
Ser Tyr Ser Leu Glu Ser Ser Leu Glu Leu Leu Gln Lys Asp Val Val  
85 90 95  
Gln Leu His Ala Pro Arg Tyr Gln Ser Met Arg Arg Asp Val Ile Gly  
100 105 110  
Cys Thr Gln Glu Met Asp Phe Ile Leu Trp Pro Arg Asn Asp Ile Glu  
115 120 125  
Lys Ile Val Cys Leu Leu Phe Ser Arg Trp Lys Glu Ser Asp Glu Pro  
130 135 140  
Phe Arg Pro Val Gln Ala Lys Phe Glu Phe His His Gly Asp Tyr Glu  
145 150 155 160  
Lys Gln Phe Leu His Val Leu Ser Arg Lys Asp Lys Thr Gly Ile Val  
165 170 175  
Val Asn Asn Pro Asn Gln Ser Val Phe Leu Phe Ile Asp Arg Gln His  
180 185 190  
Leu Gln Thr Pro Lys Asn Lys Ala Thr Ile Phe Lys Leu Cys Ser Ile

195

200

205

Cys Leu Tyr Leu Pro Gln Glu Gln Leu Thr His Trp Xaa Ser Trp His

210

215

220

His Arg Gly Ser Pro Pro Ser Leu Tyr Ala Arg Val Glu Tyr

225

230

235

&lt;210&gt; 833

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 833

Asn Ser Ala Arg Ala Gln Met Ala Leu Glu Asp Gln Ala Ala Thr Leu

1

5

10

15

Glu Tyr Lys Thr Ile Lys Glu His Leu Ser Ser Lys Ser Pro Asn His

20

25

30

Gly Val Asn Leu Val Glu Asn Leu Asp Ser Leu Xaa Pro Lys Val Pro

35

40

45

Gln Arg Glu Ala Ser Leu Gly Pro Pro Gly Ala Ser Leu Ser Gln Thr

50

55

60

Gly Leu Ser Lys Arg Leu Glu Met His His Ser Ser Ser Tyr Gly Val

65

70

75

80

Asp Tyr Lys Arg Ser Tyr Pro Thr Asn Ser Leu Thr Arg Ser His Gln

85

90

95

Ala Pro Leu Ser Lys Glu Thr Thr Leu Thr Pro Pro Ile Pro Leu Thr

100

105

110

Ser Pro Glu Thr Arg Ala Leu Ala Gly Glu Thr Thr Arg Arg Pro Pro

115

120

125

Arg Arg Gly Trp Thr Pro Ser Arg Cys Thr Ala Pro Ser His Leu Ala

130

135

140

Arg Pro

145

<210> 834  
<211> 239  
<212> PRT  
<213> Homo sapiens

<400> 834

Gln Pro Pro Gly Thr Arg Asp Pro Ala Pro Pro Leu Ile Thr Pro Ala  
1 5 10 15  
Thr Pro Gln Leu Ser Ala Ala Pro Asp Ala Met Asp Pro Ala Leu Ala  
20 25 30  
Ala Gln Met Ser Glu Ala Val Ala Glu Lys Met Leu Gln Tyr Arg Arg  
35 40 45  
Asp Thr Ala Gly Trp Lys Ile Cys Arg Glu Gly Asn Gly Val Ser Val  
50 55 60  
Ser Trp Arg Pro Ser Val Glu Phe Pro Gly Asn Leu Tyr Arg Gly Glu  
65 70 75 80  
Gly Ile Val Tyr Gly Thr Leu Glu Glu Val Trp Asp Cys Val Lys Pro  
85 90 95  
Ala Val Gly Gly Leu Arg Val Lys Trp Asp Glu Asn Val Thr Gly Phe  
100 105 110  
Glu Ile Ile Gln Ser Ile Thr Asp Thr Leu Cys Val Ser Arg Thr Ser  
115 120 125  
Thr Pro Ser Ala Ala Met Lys Leu Ile Ser Pro Arg Asp Phe Val Asp  
130 135 140  
Leu Val Leu Val Lys Arg Tyr Glu Asp Gly Thr Ile Ser Ser Asn Ala  
145 150 155 160  
Thr His Val Glu His Pro Leu Cys Pro Pro Lys Pro Gly Phe Val Arg  
165 170 175  
Gly Phe Asn His Pro Cys Gly Cys Phe Cys Glu Pro Leu Pro Gly Glu  
180 185 190  
Pro Thr Lys Thr Asn Leu Val Thr Phe Phe His Thr Asp Leu Ser Gly  
195 200 205  
Tyr Leu Pro Gln Asn Val Val Asp Ser Phe Phe Pro Arg Ser Met Thr  
210 215 220  
Arg Phe Tyr Ala Asn Leu Gln Lys Ala Val Lys Gln Phe His Glu

225

230

235

&lt;210&gt; 835

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 835

Gln Leu Thr Thr Val Arg Arg Leu Leu Ser Glu Lys Ala Thr His Val  
 1 5 10 15

Asn Thr Arg Asp Glu Asp Glu Xaa Thr Pro Leu His Arg Ala Ala Tyr  
 20 25 30

Ser Gly His Leu Asp Ile Val Gln Glu Leu Ile Ala Gln Gly Ala Asp  
 35 40 45

Val His Ala Val Thr Val Asp Gly Trp Thr Pro Leu His Ser Ala Cys  
 50 55 60

Lys Trp Asn Asn Thr Arg Val Ala Ser Phe Leu Leu Gln His Asp Ala  
 65 70 75 80

Asp Ile Asn Ala Gln Thr Lys Gly Leu Leu Thr Pro Leu His Leu Ala  
 85 90 95

Ala Gly Asn Arg Asp Ser Lys Asp Thr Leu Glu Leu Leu Leu Met Asn  
 100 105 110

Arg Tyr Val Lys Pro Gly Leu Lys Asn Asn Leu Glu Glu Thr Ala Phe  
 115 120 125

Asp Ile Ala Arg Arg Thr Ser Ile Tyr His Tyr Leu Phe Glu Ile Val  
 130 135 140

Glu Gly Cys Thr Asn Ser Ser Pro Gln Ser  
 145 150

&lt;210&gt; 836

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 836

Asn Thr Phe Ile His Glu Asp Ile Trp Asn Ile Arg Ser Ile Cys Ser  
1 5 10 15  
Thr Thr Asn Ile Gln Cys Lys Asn Gly Lys Met Asn Cys His Glu Gly  
20 25 30  
Val Val Lys Val Thr Asp Cys Arg Asp Thr Gly Ser Ser Arg Ala Pro  
35 40 45  
Asn Cys Arg Tyr Arg Ala Ile Ala Ser Thr Arg Arg Val Val Ile Ala  
50 55 60  
Cys Glu Gly Asn Pro Gln Val Pro Val His Phe Asp Gly  
65 70 75

&lt;210&gt; 837

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 837

Arg Asp Ala Pro Gly Ile Ser Leu Thr Val Leu Leu Pro His Gln Gln  
1 5 10 15  
Pro Pro Thr Phe Gly Pro Thr Leu Pro Pro Met Arg Glu Tyr Pro Ala  
20 25 30  
Trp Met Leu Cys Phe Ser Gly Leu Ser Leu Ser Pro Phe Leu Gln Gly  
35 40 45  
Met Leu Val Ser Leu Ala Ser Gln Cys Pro Asn Trp Ser Pro Glu Cys  
50 55 60  
Leu Val Leu Ser Gln Glu Thr Ala Glu His Trp Pro Ser Thr Pro Lys  
65 70 75 80  
Arg Pro Leu His

&lt;210&gt; 838

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 838

Cys Phe Ser Leu Pro Ser Leu Phe Thr Ala Val Lys Phe Ile Lys Cys  
1 5 10 15  
Phe Ser Val Val Phe Cys Ser Leu Ser Phe Thr Gly Tyr Phe Phe Met  
20 25 30  
Tyr Thr Phe Arg Ile Phe Cys Leu Leu Tyr Pro Val Val Gln Met Ile  
35 40 45  
Ser Tyr Ile Leu Gln Met Pro Phe Gln Phe Leu Phe Ser Phe Ser Ile  
50 55 60  
Lys Leu Pro Ser Cys Pro Asn Val Gln Phe Val Ser Val Cys Val Cys  
65 70 75 80  
Val Cys Val Cys Val Asn Leu Ile Phe Lys Ser Ala Arg Leu Pro Ile  
85 90 95

<210> 839

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 839

Xaa Gln Ala Thr Ala Ile Asn Thr Asp Val Asn Gly Cys Ile Cys Phe  
1 5 10 15  
Ala Val Val Thr Gly Leu Gly Arg Phe Gly Ile Cys Glu Arg Ile Asp  
20 25 30  
Ser Phe Ser Lys Leu Phe His Lys Val Lys Lys Leu His Phe Lys Gly  
35 40 45  
Asn Arg Ser Tyr Ser Ser Leu Lys Ser Xaa Ser Asn Cys Ser Phe Ile  
50 55 60

&lt;210&gt; 840

&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 840

Glu Ile Arg Val Ser Cys Thr Ala Gly Ala Gly Phe Pro Ala Ala Gln  
1 5 10 15

Ala Arg Val Arg Cys Leu Cys His Leu Ile Leu Met Ser Gly Glu Ile  
20 25 30

Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser  
35 40 45

Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln Pro  
50 55 60

Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys  
65 70 75 80

Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala  
85 90 95

Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn  
100 105 110

Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu  
115 120 125

Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln  
130 135 140

Leu Leu Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro  
145 150 155 160

Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln  
165 170 175

Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu Thr  
180 185 190

Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu Lys Thr  
195 200 205

Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp

210	215	220	
Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg			
225	230	235	240
Ala Phe Gly Pro Ala Val Val Ala Asn His Trp Asn Phe His Trp Ile			
	245	250	255
Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu Ile			
	260	265	270
Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Gln			
	275	280	285

&lt;210&gt; 841

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 841

Gly Xaa Glu Gly Lys Gly Arg Glu Gly Gly Val Thr Arg Gly Arg Ala			
1	5	10	15
Arg Ala Pro Gly Ala Ala Arg Arg Arg Val Glu Leu Asp Arg Val Cys			
	20	25	30
Cys Gln Arg Arg Glu Leu Arg Pro Pro Phe Tyr Asn Ser Ser Thr Arg			
	35	40	45
Ala Gly His Arg Glu Gln Arg Ala Arg Val Ser Arg Asn Pro Ile Pro			
	50	55	60
Ser Asp Arg Ile Ser Pro Pro Gln Pro Asn Gly Glu Ile Ser Gly Asn			
	65	70	75
Met Ala Thr Glu His Val Asn Gly Asn Gly Thr Glu Glu Pro Met Asp			
	85	90	95
Thr Thr Ser Ala Val Ile His Ser Glu Asn Phe Gln Thr Leu Leu Asp			
	100	105	110



Ala Gly Leu Pro Gln Lys Val Ala Glu Lys Leu Asp Glu Ile Tyr Val  
 115 120 125

Ala Gly Leu Val Ala His Ser Asp Leu Asp Glu Arg Ala Ile Glu Ala  
 130 135 140

Leu Lys Glu Phe Asn Glu Asp Gly Ala Leu Ala Val Leu Gln Gln Phe  
 145 150 155 160

Lys Asp Ser Asp Leu Ser His Val Gln Asn Lys Ser Ala Phe Leu Cys  
 165 170 175

Gly Val Met Lys Thr Tyr Arg Gln Arg Glu Lys Gln Gly Thr Lys Val  
 180 185 190

Ala Asp Ser Ser Lys Gly Pro Asp Glu Ala Lys Ile Lys Ala Leu Leu  
 195 200 205

Glu Arg Thr Gly Ser His Leu Met  
 210 215

<210> 842

<211> 189

<212> PRT

<213> Homo sapiens

<400> 842

Asp Ser Asp Gly Ser Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val  
 1 5 10 15

Glu Ile Leu Pro Phe Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn  
 20 25 30

Leu Asp Val Leu Glu Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr  
 35 40 45

Pro Asn Leu Pro Asn Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys  
 50 55 60

Gln Ile Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe  
 65 70 75 80

Pro Glu Ala Ile Ser Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly  
 85 90 95

Val Leu Val His Cys Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr  
 100 105 110

Val Ala Tyr Leu Met Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr

115

120

125

Asp Ile Val Lys Met Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe  
130 135 140

Met Gly Gln Leu Leu Asp Phe Glu Arg Thr Leu Gly Leu Ser Ser Pro  
145 150 155 160

Cys Asp Asn Arg Val Pro Ala Gln Gln Leu Tyr Phe Thr Thr Pro Ser  
165 170 175

Asn Gln Asn Val Tyr Gln Val Asp Ser Leu Gln Ser Thr  
180 185

<210> 843  
<211> 220  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (216)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 843  
Asn Thr Pro Gly Phe Met Tyr Lys Asn Leu Gln Cys Leu Val Ile Asp  
1 5 10 15

Glu Ala Asp Arg Ile Phe Asp Val Gly Phe Glu Glu Glu Leu Lys Gln  
20 25 30

Ile Ile Lys Leu Leu Pro Thr Arg Arg Gln Thr Met Leu Phe Ser Ala  
35 40 45

Thr Gln Thr Arg Lys Val Glu Asp Leu Ala Arg Ile Ser Leu Lys Lys  
50 55 60

Glu Pro Leu Tyr Val Gly Val Asp Asp Asp Lys Ala Asn Ala Thr Val  
65 70 75 80

Asp Gly Leu Glu Gln Lys Asn Arg Lys Lys Lys Leu Met Val Phe Phe  
85 90 95

Ser Ser Cys Met Ser Val Lys Tyr His Tyr Glu Leu Leu Asn Tyr Ile  
100 105 110

Asp Leu Pro Val Leu Ala Ile His Gly Lys Gln Lys Gln Asn Lys Arg  
115 120 125

Thr Thr Thr Phe Phe Gln Phe Cys Asn Ala Asp Ser Gly Thr Leu Leu  
130 135 140

Cys Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Pro Glu Val Asp Trp  
145 150 155 160

Ile Val Gln Tyr Asp Pro Pro Asp Asp Pro Lys Glu Tyr Ile His Arg  
165 170 175

Val Gly Arg Thr Ala Arg Gly Leu Asn Gly Arg Gly His Ala Leu Leu  
180 185 190

Ile Leu Arg Pro Glu Glu Leu Gly Phe Leu Arg Tyr Leu Lys Gln Ser  
195 200 205

Lys Val Pro Leu Ser Glu Phe Xaa Leu Phe Leu Val  
210 215 220

<210> 844

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 844

Arg Pro Pro Phe Val Pro Lys His Pro Ala His Ala Asp Ser Leu Leu  
1 5 10 15

Gly Ser Leu Arg Tyr Leu Ser Thr Gln Thr Leu Leu Pro His Pro Ile  
20 25 30

Ser Pro Glu Thr Pro Ala Phe Xaa Leu Thr Ile Phe Pro Leu Pro Ala  
35 40 45

Phe Arg Phe Leu Leu Gly Ala Gln Arg Pro Leu Trp Gly Val Ala Ser  
50 55 60

Ser Pro Pro Thr Pro Pro His Pro Pro Pro Leu Pro Arg Gln Ala Ser  
65 70 75 80

Pro Cys Arg

<210> 845  
<211> 114  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 845  
Xaa Ser Ser Arg Thr Cys Glu Gly Arg Val Leu Ser Ser Val Xaa Pro  
1 5 10 15  
Leu Ala His Val Ala Ser Val Phe Leu Lys Leu Pro Asp Leu Glu Xaa  
20 25 30  
Leu Met Lys Arg Glu Asn Gln Lys Ile Leu Thr Pro Leu Val Ser Leu  
35 40 45  
Asp Thr Pro Gly Lys Ala Thr Val Gln Val Val Ile Leu Ala Asp Pro  
50 55 60  
Asp Gly His Glu Ile Cys Phe Val Gly Asp Glu Ala Phe Arg Glu Leu  
65 70 75 80  
Ser Lys Met Asp Pro Glu Gly Ser Lys Leu Leu Asp Asp Ala Met Ala  
85 90 95  
Ala Asp Lys Ser Asp Glu Trp Phe Ala Lys His Asn Lys Pro Lys Ala  
100 105 110

Ser Gly

<210> 846  
<211> 68  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 846

Ser Asn Gly Ser Ile Cys Leu Asp Ile Leu Arg Ser Gln Trp Ser Pro  
1 5 10 15

Ala Leu Thr Val Ser Lys Val Leu Leu Ser Ile Cys Ser Leu Leu Cys  
20 25 30

Asp Pro Asn Pro Asp Asp Pro Leu Val Pro Glu Ile Ala His Thr Tyr  
35 40 45

Lys Ala Asp Arg Glu Lys Tyr Asn Arg Leu Ala Arg Glu Trp Thr Gln  
50 55 60

Lys Tyr Ala Met  
65

&lt;210&gt; 847

&lt;211&gt; 365

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 847

Gly Arg Val Gly Ser Pro Gly Gly Cys Pro Trp Val Leu Pro Ser Leu  
1 5 10 15

Pro Asp Thr Gln Thr Asp Leu Asp Arg Pro Pro Gly Arg Ser Arg Thr  
20 25 30

Gly Arg Pro Asp Ala Ala Met Ala Glu Leu Pro Gly Pro Phe Leu Cys  
35 40 45

Gly Ala Leu Leu Gly Phe Leu Cys Leu Ser Gly Leu Ala Val Glu Val  
50 55 60

Lys Val Pro Thr Glu Pro Leu Ser Thr Pro Leu Gly Lys Thr Ala Glu  
65 70 75 80

Leu Thr Cys Thr Tyr Ser Thr Ser Val Gly Asp Ser Phe Ala Leu Glu  
85 90 95

Trp Ser Phe Val Gln Pro Gly Lys Pro Ile Ser Glu Ser His Pro Ile  
100 105 110

Leu Tyr Phe Thr Asn Gly His Leu Tyr Pro Thr Gly Ser Lys Ser Lys  
115 120 125

Arg Val Ser Leu Leu Gln Asn Pro Pro Thr Val Gly Val Ala Thr Leu  
130 135 140

Lys Leu Thr Asp Val His Pro Ser Asp Thr Gly Thr Tyr Leu Cys Gln  
 145 150 155 160  
 Val Asn Asn Pro Pro Asp Phe Tyr Thr Asn Gly Leu Gly Leu Ile Asn  
 165 170 175  
 Leu Thr Val Leu Val Pro Pro Ser Asn Pro Leu Cys Ser Gln Ser Gly  
 180 185 190  
 Gln Thr Ser Val Gly Gly Ser Thr Ala Leu Arg Cys Ser Ser Ser Glu  
 195 200 205  
 Gly Ala Pro Lys Pro Val Tyr Asn Trp Val Arg Leu Gly Thr Phe Pro  
 210 215 220  
 Thr Pro Ser Pro Gly Ser Met Val Gln Asp Glu Val Ser Gly Gln Leu  
 225 230 235 240  
 Ile Leu Thr Asn Leu Ser Leu Thr Ser Ser Gly Thr Tyr Arg Cys Val  
 245 250 255  
 Ala Thr Asn Gln Met Gly Ser Ala Ser Cys Glu Leu Thr Leu Ser Val  
 260 265 270  
 Thr Glu Pro Ser Gln Gly Arg Val Ala Gly Ala Leu Ile Gly Val Leu  
 275 280 285  
 Leu Gly Val Leu Leu Leu Ser Val Ala Ala Phe Cys Leu Val Arg Phe  
 290 295 300  
 Gln Lys Glu Arg Gly Lys Lys Pro Lys Glu Thr Tyr Gly Gly Ser Asp  
 305 310 315 320  
 Leu Arg Glu Asp Ala Ile Ala Pro Gly Ile Ser Glu His Thr Cys Met  
 325 330 335  
 Arg Ala Asp Ser Ser Lys Gly Phe Leu Glu Arg Pro Ser Ser Ala Ser  
 340 345 350  
 Thr Val Thr Thr Thr Lys Ser Lys Leu Pro Met Val Val  
 355 360 365

&lt;210&gt; 848

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 848

Leu Asp His Ile Val Asp Lys Val Lys Glu Cys Val Asp His Leu Ser  
1 5 10 15

Arg Asp Glu Asp Glu Glu Lys Leu Val Ala Ser Leu Trp Gly Ala Glu  
20 25 30

Arg Cys Leu Arg Val Leu Glu Ser Val Thr Val His Asn Pro Glu Asn  
35 40 45

Gln Ser Tyr Leu Ile Ala Tyr Lys Asp Ser Gln Leu Ile Val Ser Ser  
50 55 60

Ala Lys Ala Leu Gln His Cys Glu Glu Leu Ile Gln Gln Tyr Asn Arg  
65 70 75 80

Ala Glu Asp Ser Ile Cys Leu Ala Asp Ser Lys Pro Leu Pro His Gln  
85 90 95

Asn Val Thr Asn His Val Gly Lys Ala Val Glu Asp Cys Met Arg Ala  
100 105 110

Ile Ile Gly Val Leu Leu Asn Leu Thr Asn Asp Asn Glu Trp Gly Ser  
115 120 125

Thr Lys Thr Gly Glu Gln Asp Gly Leu Ile Gly Thr Ala Leu Asn Cys  
130 135 140

Val Leu Gln Val Pro Lys Tyr Leu Pro Gln Glu Gln Arg Phe Asp Ile  
145 150 155 160

Arg Val Leu Gly Leu Gly Leu Leu Ile Asn Leu Val Glu Tyr Ser Ala  
165 170 175

Arg Asn Arg His Cys Leu Val Asn Met Glu Thr Ser Cys Ser Phe Asp  
180 185 190

Ser Ser Ile Cys Ser Gly Glu Gly Asp Asp Ser Leu Arg Ile Gly Gly  
195 200 205

Gln Val His Ala Val Gln Leu  
210 215

&lt;210&gt; 849

&lt;211&gt; 368

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 849

Gly Lys Ala Glu Gly Val Cys Gly Leu Ser His Arg Gln Glu Cys Gln

1 5 10 15  
Asp Pro Ala Gly Ala Leu Glu Ser Leu Arg Leu Ala Leu Ala Ser Arg  
20 25 30  
Leu Leu Pro Asp Phe Leu Leu Glu Arg Arg Leu Thr Leu Ala Asp Ala  
35 40 45  
Leu Glu Lys Cys Leu Lys Lys Gly Lys Gly Glu Glu Gln Ala Leu Ala  
50 55 60  
Ala Ala Val Leu Gly Leu Leu Cys Val Gln Leu Gly Pro Gly Pro Lys  
65 70 75 80  
Gly Glu Glu Leu Phe His Ser Leu Gln Pro Leu Leu Val Ser Val Leu  
85 90 95  
Ser Asp Ser Thr Ala Ser Pro Ala Ala Arg Leu His Cys Ala Ser Ala  
100 105 110  
Leu Gly Leu Gly Cys Tyr Val Ala Ala Ala Asp Ile Gln Asp Leu Val  
115 120 125  
Ser Cys Leu Ala Cys Leu Glu Ser Val Phe Ser Arg Phe Tyr Gly Leu  
130 135 140  
Gly Gly Ser Ser Thr Ser Pro Val Val Pro Ala Ser Leu His Gly Leu  
145 150 155 160  
Leu Ser Ala Ala Leu Gln Ala Trp Ala Leu Leu Leu Thr Ile Cys Pro  
165 170 175  
Ser Thr Gln Ile Ser His Ile Leu Asp Arg Gln Leu Pro Arg Leu Pro  
180 185 190  
Gln Leu Leu Ser Ser Glu Ser Val Asn Leu Arg Ile Ala Ala Gly Glu  
195 200 205  
Thr Ile Ala Leu Leu Phe Glu Leu Ala Arg Asp Leu Glu Glu Glu Phe  
210 215 220  
Val Tyr Glu Asp Met Glu Ala Leu Cys Ser Val Leu Arg Thr Leu Ala  
225 230 235 240  
Thr Asp Ser Asn Lys Tyr Arg Ala Lys Ala Asp Arg Arg Arg Gln Arg  
245 250 255  
Ser Thr Phe Arg Ala Val Leu His Ser Val Glu Gly Gly Glu Cys Glu  
260 265 270  
Glu Glu Ile Val Arg Phe Gly Phe Glu Val Leu Tyr Met Asp Ser Trp



275 280 285

Ala Arg His Arg Ile Tyr Ala Ala Phe Lys Glu Val Leu Gly Ser Gly  
290 295 300

Met His His His Leu Gln Asn Asn Glu Leu Leu Arg Asp Ile Phe Gly  
305 310 315 320

Leu Gly Pro Val Leu Leu Leu Asp Ala Thr Ala Leu Lys Ala Cys Lys  
325 330 335

Val Pro Arg Phe Glu Lys His Leu Tyr Asn Ala Ala Ala Phe Lys Ala  
340 345 350

Arg Thr Lys Ala Arg Ser Arg Val Arg Asp Lys Arg Ala Asp Ile Leu  
355 360 365

<210> 850

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (207)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 850

Ala Ser Ala Ser Ile Cys Ser Gly Ile Lys Tyr Ala Phe Gln Val Ile  
1 5 10 15

Gly Glu Leu His Ser Gln Leu Asp Gly Ser Glu Val Leu Leu Leu Thr  
20 25 30

Asp Gly Glu Asp Asn Thr Ala Ser Ser Cys Ile Asp Glu Val Lys Gln  
35 40 45

Ser Gly Ala Ile Val His Phe Ile Ala Leu Gly Arg Ala Ala Asp Glu  
50 55 60

Ala Val Ile Glu Met Ser Lys Ile Thr Gly Gly Ser His Phe Tyr Val  
65 70 75 80

Ser Asp Glu Ala Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Xaa  
85 90 95

Thr Ser Gly Asn Thr Asp Leu Ser Xaa Lys Ser Leu Gln Leu Glu Ser  
100 105 110

Lys Gly Leu Thr Leu Asn Ser Asn Ala Trp Met Asn Asp Thr Val Ile  
115 120 125

Ile Asp Ser Thr Val Gly Lys Asp Thr Phe Phe Leu Ile Thr Trp Asn  
130 135 140

Ser Leu Pro Pro Ser Ile Ser Leu Trp Asp Pro Ser Gly Thr Ile Met  
145 150 155 160

Glu Asn Phe Thr Val Asp Ala Thr Ser Lys Met Ala Tyr Leu Ser Ile  
165 170 175

Pro Gly Thr Xaa Lys Val Gly Thr Trp Ala Tyr Asn Leu Xaa Ala Lys  
180 185 190

Ala Xaa Pro Glu Thr Leu Thr Ile Thr Val Thr Ser Arg Ala Xaa Lys  
195 200 205

Phe Phe Cys Ala Ser Asn His Ser Glu Cys  
210 215

<210> 851  
<211> 303  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (133)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (255)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 851  
Gly Cys Leu Gly Gln Thr Arg Pro Ala Ser Pro Arg Thr Ala Arg Glu  
1 5 10 15  
Ser Val Leu Gly Val Ser Gln Asn Met Ser Phe Asn Leu Gln Ser Ser  
20 25 30  
Lys Lys Leu Phe Ile Phe Leu Gly Lys Ser Leu Phe Ser Leu Leu Glu  
35 40 45  
Ala Met Ile Phe Ala Leu Leu Pro Lys Pro Arg Lys Asn Val Ala Gly  
50 55 60  
Glu Ile Val Leu Ile Thr Gly Ala Gly Ser Gly Leu Gly Arg Leu Leu  
65 70 75 80  
Ala Leu Gln Phe Ala Arg Leu Gly Ser Val Leu Val Leu Trp Asp Ile  
85 90 95  
Asn Lys Glu Gly Asn Glu Glu Thr Cys Lys Met Ala Arg Glu Ala Gly  
100 105 110  
Ala Thr Arg Val His Ala Tyr Thr Cys Asp Cys Ser Gln Lys Glu Gly  
115 120 125  
Val Tyr Arg Val Xaa Asp Gln Val Lys Lys Glu Val Gly Asp Val Ser  
130 135 140  
Ile Leu Ile Asn Asn Ala Gly Ile Val Thr Gly Lys Lys Phe Leu Asp  
145 150 155 160  
Cys Pro Asp Glu Leu Met Glu Lys Ser Phe Asp Val Asn Phe Lys Ala  
165 170 175  
His Leu Trp Thr Tyr Lys Ala Phe Leu Pro Ala Met Ile Ala Asn Asp  
180 185 190

His Gly His Leu Val Cys Ile Ser Ser Ser Ala Gly Leu Ser Gly Val  
 195 200 205

Asn Gly Leu Ala Asp Tyr Cys Ala Ser Lys Phe Ala Ala Phe Gly Phe  
 210 215 220

Ala Glu Ser Val Phe Val Glu Thr Phe Val Gln Lys Gln Lys Gly Ile  
 225 230 235 240

Lys Thr Thr Ile Val Cys Pro Phe Phe Ile Lys Thr Gly Met Xaa Glu  
 245 250 255

Gly Cys Thr Thr Gly Cys Pro Ser Leu Leu Pro Ile Leu Glu Pro Lys  
 260 265 270

Tyr Ala Val Glu Lys Ile Val Glu Ala Ile Leu Gln Glu Lys Met Tyr  
 275 280 285

Leu Tyr Met Pro Lys Leu Leu Tyr Phe Met Met Phe Leu Lys Arg  
 290 295 300

<210> 852

<211> 340

<212> PRT

<213> Homo sapiens

<400> 852

Arg Thr Val Ile Asp Ala Met Ser Ala Leu Leu Arg Leu Leu Arg Thr  
 1 5 10 15

Gly Ala Pro Ala Ala Ala Cys Leu Arg Leu Gly Thr Ser Ala Gly Thr  
 20 25 30

Gly Ser Arg Arg Ala Met Ala Leu Tyr His Thr Glu Glu Arg Gly Gln  
 35 40 45

Pro Cys Ser Gln Asn Tyr Arg Leu Phe Phe Lys Asn Val Thr Gly His  
 50 55 60

Tyr Ile Ser Pro Phe His Asp Ile Pro Leu Lys Val Asn Ser Lys Glu  
 65 70 75 80

Glu Asn Gly Ile Pro Met Lys Lys Ala Arg Asn Asp Glu Tyr Glu Asn  
 85 90 95

Leu Phe Asn Met Ile Val Glu Ile Pro Arg Trp Thr Asn Ala Lys Met  
 100 105 110

Glu Ile Ala Thr Lys Glu Pro Met Asn Pro Ile Lys Gln Tyr Val Lys  
115 120 125

Asp Gly Lys Leu Arg Tyr Val Ala Asn Ile Phe Pro Tyr Lys Gly Tyr  
130 135 140

Ile Trp Asn Tyr Gly Thr Leu Pro Gln Thr Trp Glu Asp Pro His Glu  
145 150 155 160

Lys Asp Lys Ser Thr Asn Cys Phe Gly Asp Asn Asp Pro Ile Asp Val  
165 170 175

Cys Glu Ile Gly Ser Lys Ile Leu Ser Cys Gly Glu Val Ile His Val  
180 185 190

Lys Ile Leu Gly Ile Leu Ala Leu Ile Asp Glu Gly Glu Thr Asp Trp  
195 200 205

Lys Leu Ile Ala Ile Asn Ala Asn Asp Pro Glu Ala Ser Lys Phe His  
210 215 220

Asp Ile Asp Asp Val Lys Lys Phe Lys Pro Gly Tyr Leu Glu Ala Thr  
225 230 235 240

Leu Asn Trp Phe Arg Leu Tyr Lys Val Pro Asp Gly Lys Pro Glu Asn  
245 250 255

Gln Phe Ala Phe Asn Gly Glu Phe Lys Asn Lys Ala Phe Ala Leu Glu  
260 265 270

Val Ile Lys Ser Thr His Gln Cys Trp Lys Ala Leu Leu Met Lys Lys  
275 280 285

Cys Asn Gly Gly Ala Ile Asn Cys Thr Asn Val Gln Ile Ser Asp Ser  
290 295 300

Pro Phe Arg Cys Thr Gln Glu Glu Ala Arg Ser Leu Val Glu Ser Val  
305 310 315 320

Ser Ser Ser Pro Asn Lys Glu Ser Asn Glu Glu Glu Gln Val Trp His  
325 330 335

Phe Leu Gly Lys  
340

&lt;210&gt; 853

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (165)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 853

Ala	Asp	Leu	Ile	Ser	Leu	Pro	Thr	Thr	Val	Glu	Gly	Leu	Gln	Lys	Ser
1				5					10					15	

Val	Ala	Ser	Ile	Gly	Asn	Thr	Leu	Asn	Ser	Val	His	Leu	Ala	Val	Glu
			20				25						30		

Ala	Leu	Gln	Lys	Thr	Val	Asp	Glu	His	Lys	Lys	Thr	Met	Glu	Leu	Leu
		35					40					45			

Gln	Ser	Asp	Met	Asn	Gln	His	Phe	Leu	Lys	Glu	Thr	Pro	Gly	Ser	Asn
	50					55						60			

Gln	Ile	Ile	Pro	Ser	Pro	Ser	Ala	Thr	Ser	Glu	Leu	Asp	Asn	Lys	Thr
65					70					75				80	

His	Ser	Glu	Asn	Leu	Lys	Gln	Asp	Ile	Leu	Tyr	Leu	His	Asn	Ser	Leu
			85						90					95	

Glu	Glu	Val	Asn	Ser	Ala	Leu	Val	Gly	Tyr	Gln	Arg	Gln	Asn	Asp	Leu
		100						105					110		

Lys	Leu	Glu	Gly	Met	Asn	Glu	Thr	Val	Ser	Asn	Leu	Thr	Gln	Arg	Val
	115						120						125		

Asn	Leu	Ile	Glu	Ser	Asp	Val	Val	Ala	Met	Ser	Lys	Val	Glu	Lys	Lys
	130					135					140				

Ala	Asn	Leu	Ser	Phe	Ser	Met	Met	Gly	Asp	Arg	Ser	Ala	Thr	Leu	Lys
145					150					155				160	

Arg	Gln	Ser	Leu	Xaa	Gln	Val	Thr	Asn	Arg	Thr	Asp	Thr	Val	Lys	Ile
			165						170					175	

Gln	Ser	Ile	Lys	Lys	Glu	Asp	Ser	Ser	Asn	Ser	Gln	Val	Ser	Lys	Leu
		180							185					190	

Arg	Glu	Lys	Leu	Gln	Leu	Ile	Ser	Ala	Leu	Thr	Asn	Lys	Pro	Glu	Ser
	195							200					205		

Asn	Arg	Pro	Pro	Glu	Thr	Ala	Asp	Glu	Glu	Gln	Val	Glu	Ser	Phe	Thr
	210					215						220			

Ser	Lys	Pro	Ser	Ala	Leu	Pro	Lys	Phe	Ser	Gln	Phe	Leu	Gly	Asp	Pro
225					230					235				240	

Val Glu Lys Ala Ala Gln Leu Arg Pro Ile Ser Leu Pro Gly Val Ser  
                   245                  250                  255

Ser Thr Glu Asp Leu Gln Asp Leu Phe Arg Lys Thr Gly Gln Asp Val  
                   260                  265                  270

Asp Gly Lys Leu Thr Tyr Gln Glu Ile Trp Thr Ser Leu Gly Ser Ala  
                   275                  280                  285

Met Pro Glu Pro Glu Ser Leu Arg Ala Phe Asp Ser Asp Gly Asp Gly  
                   290                  295                  300

Arg Tyr Ser Phe Leu Glu Leu Arg Val Ala Leu Gly Ile  
                   305                  310                  315

<210> 854  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 854  
 Leu Leu Phe Asn Phe Lys Gln Val Phe Phe Ala Ser Val Arg Ser Gly  
   1                  5                  10                  15  
 Gly Ser Ser Gln Val Phe Phe Met Thr Leu Asn Arg Asn Ser Met Met  
                   20                  25                  30

Asn Trp

<210> 855  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens

<400> 855  
 Leu Pro Val Pro Gly Arg Gly Arg Val Phe Phe Glu Asp Leu Gly Leu  
   1                  5                  10                  15  
 Arg Asp Thr Val Arg Met Ala Val Val Pro Leu Leu Leu Leu Gly Gly  
                   20                  25                  30  
 Leu Trp Ser Ala Val Gly Ala Ser Ser Leu Gly Val Val Thr Cys Gly  
                   35                  40                  45

Ser Val Val Lys Leu Leu Asn Thr Arg His Asn Val Arg Leu His Ser

50                                      55                                      60  
 His Asp Val Arg Tyr Gly Ser Gly Ser Gly Gln Gln Ser Val Thr Gly  
 65                                      70                                      75                                      80  
 Val Thr Ser Val Asp Asp Ser Asn Ser Tyr Trp Arg Ile Arg Gly Lys  
                                     85                                      90                                      95  
 Ser Ala Thr Val Cys Glu Arg Gly Thr Pro Ile Lys Cys Gly Gln Pro  
                                     100                                      105                                      110  
 Ile Arg Leu Thr His Val Asn Thr Gly Arg Asn Leu His Ser His His  
                                     115                                      120                                      125  
 Phe Thr Ser Pro Leu Ser Gly Asn Gln Glu Val Ser Ala Phe Gly Glu  
                                     130                                      135                                      140  
 Glu Gly Glu Gly Asp Tyr Leu Asp Asp Trp Thr Val Leu Cys Asn Gly  
 145                                      150                                      155                                      160  
 Pro Tyr Trp Val Arg Asp Gly Glu Val Arg Phe Lys His Ser Ser Thr  
                                     165                                      170                                      175  
 Glu Val Leu Leu Ser Val Thr Gly Glu Gln Tyr Gly Arg Pro Ile Ser  
                                     180                                      185                                      190  
 Gly Gln Lys Glu Val His Gly Met Ala Gln Pro Ser Gln Asn Asn Tyr  
                                     195                                      200                                      205  
 Trp Lys Ala Met Glu Gly Ile Phe Met Lys Pro Ser Glu Leu Leu Lys  
                                     210                                      215                                      220  
 Ala Glu Ala His His Ala Glu Leu  
 225                                      230

<210> 856

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 856

Cys Phe Ser Ser Ser Gly Phe Thr Cys His Asp His Gly Ala Thr Val  
 1                                      5                                      10                                      15



Leu Gln Tyr Ala Pro Lys Gln Gln Leu Leu Ile Ser Gly Gly Arg Lys  
20 25 30

Arg His Val Cys Ile Phe Asp Ile Xaa Gln Arg Gln Leu Ile His Thr  
35 40 45

Phe Gln Ala His Asp Ser Ala Ile Lys Ala Leu Ala Leu Asp Pro Tyr  
50 55 60

Glu Glu Tyr Phe Thr Thr Gly Ser Ala Glu Gly Asn Ile Lys Val Trp  
65 70 75 80

Arg Leu Thr Gly His Gly Leu Ile His Ser Phe Lys Ser Glu His Ala  
85 90 95

Lys Gln Ser Ile Phe Arg Asn Ile Gly Ala Gly Val Met Gln Ile Asp  
100 105 110

Ile Ile Gln Gly Asn Arg Leu Phe Ser Cys Gly Ala Asp Gly Thr Leu  
115 120 125

Lys Thr Arg Val Leu Pro Asn Ala Phe Asn Ile Pro Asn Arg Ile Leu  
130 135 140

Asp Ile Leu  
145

<210> 857  
<211> 96  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 857  
Pro Arg Val Arg Ile Asn Lys Glu Ser Glu Val Tyr Lys Met Leu Gln

1	5	10	15
Glu Lys Gln Glu Leu Asn Glu Pro Leu Lys Gln Ser Thr Ser Phe Leu			
20	25	30	
Ile Leu Gln Glu Ile Leu Glu Ser Glu Ile Lys Gly Asp Leu Asn Asn			
35	40	45	
Pro Gln Asp Ser Glu Val Leu Lys Leu Leu Xaa Pro Xaa Val Xaa Ala			
50	55	60	
Ser Ile Gly Asn Ala Gln Lys Val Pro Met Cys Asp Lys Cys Gly Pro			
65	70	75	80
Gly Ile Val Gly Met Phe Val Lys Leu Arg Gly Pro Ser Ser Pro Pro			
85	90	95	

<210> 858  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 858  
 Asp Thr Ser Glu Ala Ile Leu Thr Ser Glu Tyr Pro Ser Ser Ser Leu  
 1 5 10 15  
 Lys Thr Glu Thr Ser His Leu Glu Asn Val Asn Leu Cys Cys His Leu  
 20 25 30  
 Val Ala Gly Val Ser Arg His Lys Thr Glu Phe Lys Lys  
 35 40 45

<210> 859  
 <211> 758  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (590)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 859  
 Lys Met Ser Glu Asn Ser Ser Asp Ser Asp Ser Ser Cys Gly Trp Thr

1	5	10	15
Val Ile Ser His Glu Gly Ser Asp Ile Glu Met Leu Asn Ser Val Thr	20	25	30
Pro Thr Asp Ser Cys Glu Pro Ala Pro Glu Cys Ser Ser Leu Glu Gln	35	40	45
Glu Glu Leu Gln Ala Leu Gln Ile Glu Gln Gly Glu Ser Ser Gln Asn	50	55	60
Gly Thr Val Leu Met Glu Glu Thr Ala Tyr Pro Ala Leu Glu Glu Thr	65	70	75
Ser Ser Thr Ile Glu Ala Glu Glu Gln Lys Ile Pro Glu Asp Ser Ile	85	90	95
Tyr Ile Gly Thr Ala Ser Asp Asp Ser Asp Ile Val Thr Leu Glu Pro	100	105	110
Pro Lys Leu Glu Glu Ile Gly Asn Gln Glu Val Val Ile Val Glu Glu	115	120	125
Ala Gln Ser Ser Glu Asp Phe Asn Met Gly Ser Ser Ser Ser Ser Gln	130	135	140
Tyr Thr Phe Cys Gln Pro Glu Thr Val Phe Ser Ser Gln Pro Ser Asp	145	150	155
Asp Glu Ser Ser Ser Asp Glu Thr Ser Asn Gln Pro Ser Pro Ala Phe	165	170	175
Arg Arg Arg Arg Ala Arg Lys Lys Thr Val Ser Ala Ser Glu Ser Glu	180	185	190
Asp Arg Leu Val Ala Glu Gln Glu Thr Glu Pro Ser Lys Glu Leu Ser	195	200	205
Lys Arg Gln Phe Ser Ser Gly Leu Asn Lys Cys Val Ile Leu Ala Leu	210	215	220
Val Ile Ala Ile Ser Met Gly Phe Gly His Phe Tyr Gly Thr Ile Gln	225	230	235
Ile Gln Lys Arg Gln Gln Leu Val Arg Lys Ile His Glu Asp Glu Leu	245	250	255
Asn Asp Met Lys Asp Tyr Leu Ser Gln Cys Gln Gln Glu Gln Glu Ser	260	265	270
Phe Ile Asp Tyr Lys Ser Leu Lys Glu Asn Leu Ala Arg Cys Trp Thr			

275	280	285
Leu Thr Glu Ala Glu Lys Met Ser Phe Glu Thr Gln Lys Thr Asn Leu 290 295 300		
Ala Thr Glu Asn Gln Tyr Leu Arg Val Ser Leu Glu Lys Glu Glu Lys 305 310 315 320		
Ala Leu Ser Ser Leu Gln Glu Glu Leu Asn Lys Leu Arg Glu Gln Ile 325 330 335		
Arg Ile Leu Glu Asp Lys Gly Thr Ser Thr Glu Leu Val Lys Glu Asn 340 345 350		
Gln Lys Leu Lys Gln His Leu Glu Glu Glu Lys Gln Lys Lys His Ser 355 360 365		
Phe Leu Ser Gln Arg Glu Thr Leu Leu Thr Glu Ala Lys Met Leu Lys 370 375 380		
Arg Glu Leu Glu Arg Glu Arg Leu Val Thr Thr Ala Leu Arg Gly Glu 385 390 395 400		
Leu Gln Gln Leu Ser Gly Ser Gln Leu His Gly Lys Ser Asp Ser Pro 405 410 415		
Asn Val Tyr Thr Glu Lys Lys Glu Ile Ala Ile Leu Arg Glu Arg Leu 420 425 430		
Thr Glu Leu Glu Arg Lys Leu Thr Phe Glu Gln Gln Arg Ser Asp Leu 435 440 445		
Trp Glu Arg Leu Tyr Val Glu Ala Lys Asp Gln Asn Gly Lys Gln Gly 450 455 460		
Thr Asp Gly Lys Lys Lys Gly Gly Arg Gly Ser His Arg Ala Lys Asn 465 470 475 480		
Lys Ser Lys Glu Thr Phe Leu Gly Ser Val Lys Glu Thr Phe Asp Ala 485 490 495		
Met Lys Asn Ser Thr Lys Glu Phe Val Arg His His Lys Glu Lys Ile 500 505 510		
Lys Gln Ala Lys Glu Ala Val Lys Glu Asn Leu Lys Lys Phe Ser Asp 515 520 525		
Ser Val Lys Ser Thr Phe Arg His Phe Lys Asp Thr Thr Lys Asn Ile 530 535 540		
Phe Asp Glu Lys Gly Asn Lys Arg Phe Gly Ala Thr Lys Glu Ala Ala		

545                      550                      555                      560  
Glu Lys Pro Arg Thr Val Phe Ser Asp Tyr Leu His Pro Gln Tyr Lys  
                         565                      570                      575  
Ala Pro Thr Glu Asn His His Asn Arg Gly Pro Thr Met Xaa Asn Asp  
                         580                      585                      590  
Gly Arg Lys Glu Lys Pro Val His Phe Lys Glu Phe Arg Lys Asn Thr  
                         595                      600                      605  
Asn Ser Lys Lys Cys Ser Pro Gly His Asp Cys Arg Glu Asn Ser His  
                         610                      615                      620  
Ser Phe Arg Lys Ala Cys Ser Gly Val Phe Asp Cys Ala Gln Gln Glu  
625                      630                      635                      640  
Ser Met Ser Leu Phe Asn Thr Val Val Asn Pro Ile Arg Met Asp Glu  
                         645                      650                      655  
Phe Arg Gln Ile Ile Gln Arg Tyr Met Leu Lys Glu Leu Asp Thr Phe  
                         660                      665                      670  
Cys His Trp Asn Glu Leu Asp Gln Phe Ile Asn Lys Phe Phe Leu Asn  
                         675                      680                      685  
Gly Val Phe Ile His Asp Gln Lys Leu Phe Thr Asp Phe Val Asn Asp  
                         690                      695                      700  
Val Lys Asp Tyr Leu Arg Asn Met Lys Glu Tyr Glu Val Asp Asn Asp  
705                      710                      715                      720  
Gly Val Phe Glu Lys Leu Asp Glu Tyr Ile Tyr Arg His Phe Phe Gly  
                         725                      730                      735  
His Thr Phe Ser Pro Pro Tyr Gly Pro Arg Ser Val Tyr Ile Lys Pro  
                         740                      745                      750  
Cys His Tyr Ser Ser Leu  
                         755

<210> 860  
<211> 184  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 860

Ala Gly Val His Thr Ile Ser Phe Leu Gly Gly Leu Ala Leu Asn Glu  
1 5 10 15

Gly Val Asn Trp Leu Ile Lys Asn Val Ile Gln Glu Pro Arg Pro Cys  
20 25 30

Gly Gly Pro His Thr Ala Val Gly Thr Lys Tyr Gly Met Pro Ser Ser  
35 40 45

His Ser Gln Phe Met Trp Phe Phe Ser Val Tyr Ser Phe Leu Phe Leu  
50 55 60

Tyr Leu Arg Met His Gln Thr Asn Asn Ala Arg Phe Leu Asp Leu Leu  
65 70 75 80

Trp Arg His Val Leu Ser Leu Gly Leu Leu Ala Val Ala Phe Leu Val  
85 90 95

Ser Tyr Ser Arg Val Tyr Leu Leu Tyr His Thr Trp Ser Gln Val Leu  
100 105 110

Tyr Gly Gly Ile Ala Gly Gly Leu Met Ala Ile Ala Trp Phe Ile Phe  
115 120 125

Thr Gln Glu Val Leu Thr Pro Leu Phe Pro Arg Ile Ala Ala Trp Pro  
130 135 140

Val Ser Glu Phe Phe Leu Ile Arg Asp Thr Ser Leu Ile Pro Asn Val  
145 150 155 160

Leu Trp Phe Glu Tyr Thr Val Thr Arg Ala Glu Ala Arg Xaa Arg Gln  
165 170 175

Arg Lys Leu Gly Thr Lys Leu Gln  
180

<210> 861

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (360)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 861

Leu Pro Gln Ala Gln Gly Asp Gln Phe Pro Trp Glu Gln Ala Glu Gly  
 1 5 10 15

Gln Ala Pro Gly Glu Asp Gly Gln Arg Leu Pro Asp Gln Ile His Pro  
 20 25 30

Gly Val Pro Ala Arg Arg Arg Pro Trp Trp Arg Glu Arg Ala Arg Ala  
 35 40 45

Val Arg Gly Leu Xaa Glu Gly Arg Glu Pro Glu Lys Arg Arg Glu Arg  
 50 55 60

Lys Gln Arg Arg Glu Gly Gly Asp Gly Glu Glu Gln Asp Val Gly Asp  
 65 70 75 80

Ala Gly Arg Leu Leu Leu Arg Val Leu His Val Ser Glu Asn Pro Val  
 85 90 95

Pro Leu Thr Val Arg Val Ser Pro Glu Val Arg Asp Val Arg Pro Tyr  
 100 105 110

Ile Val Gly Ala Val Val Arg Gly Met Asp Leu Gln Pro Gly Asn Ala  
 115 120 125

Leu Lys Arg Phe Leu Thr Ser Gln Thr Lys Leu His Glu Asp Leu Cys  
 130 135 140

Glu Lys Arg Thr Ala Ala Thr Leu Ala Thr His Glu Leu Arg Ala Val  
 145 150 155 160

Lys Gly Pro Leu Leu Tyr Cys Ala Arg Pro Pro Gln Asp Leu Lys Ile  
 165 170 175

Val Pro Leu Gly Arg Lys Glu Ala Lys Ala Lys Glu Leu Val Arg Gln  
 180 185 190

Leu Gln Leu Glu Ala Glu Glu Gln Arg Lys Gln Lys Lys Arg Gln Ser  
 195 200 205

Val Ser Gly Leu His Arg Tyr Leu His Leu Leu Asp Gly Asn Glu Asn  
 210 215 220

Tyr Pro Cys Leu Val Asp Ala Asp Gly Asp Val Ile Ser Phe Pro Pro  
 225 230 235 240

Ile Thr Asn Ser Glu Lys Thr Lys Val Lys Lys Thr Thr Ser Asp Leu  
245 250 255

Phe Leu Glu Val Thr Ser Ala Thr Ser Leu Gln Ile Cys Lys Asp Val  
260 265 270

Met Asp Ala Leu Ile Leu Lys Met Ala Glu Met Lys Lys Tyr Thr Leu  
275 280 285

Glu Asn Lys Glu Glu Gly Ser Leu Ser Asp Thr Glu Ala Asp Ala Val  
290 295 300

Ser Gly Gln Leu Pro Asp Pro Thr Thr Asn Pro Ser Ala Gly Lys Asp  
305 310 315 320

Gly Pro Ser Leu Leu Val Val Glu Gln Val Arg Val Val Asp Leu Glu  
325 330 335

Gly Ser Leu Lys Val Val Tyr Pro Ser Lys Ala Asp Leu Ala Thr Ala  
340 345 350

Pro Pro His Val Thr Val Val Xaa  
355 360

&lt;210&gt; 862

&lt;211&gt; 518

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (476)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 862

Gln Tyr Arg Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala Val Thr  
1 5 10 15

Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser Asp Ser Asp Lys  
20 25 30

Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro Ala Leu Lys Met  
35 40 45

Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp Leu Asp Gln Ala  
50 55 60

Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser Ser Ser Glu Ser  
65 70 75 80



Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys Lys Ala Ala Val  
85 90 95

Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys Lys Lys Lys Ala  
100 105 110

Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser Asp Gly Ala Lys  
115 120 125

Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser Ser Ser Ser Ser  
130 135 140

Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys Pro Pro Arg Gly  
145 150 155 160

Arg Lys Pro Ala Glu Lys Pro Leu Pro Lys Pro Arg Gly Arg Lys Pro  
165 170 175

Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Ser Asp Ser Asp Ser Asp  
180 185 190

Glu Val Asp Arg Ile Ser Glu Trp Lys Arg Arg Asp Glu Ala Arg Arg  
195 200 205

Arg Glu Leu Glu Ala Arg Arg Arg Arg Glu Gln Glu Glu Glu Leu Arg  
210 215 220

Arg Leu Arg Glu Gln Glu Lys Glu Glu Lys Glu Arg Arg Arg Glu Arg  
225 230 235 240

Ala Asp Arg Gly Glu Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly Asp  
245 250 255

Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys Gly  
260 265 270

Arg Gly Arg Gly Pro Pro Ser Ser Ser Asp Ser Glu Pro Glu Ala Glu  
275 280 285

Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser Ser  
290 295 300

Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg Pro  
305 310 315 320

Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg Lys  
325 330 335

Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys Glu  
340 345 350

Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys Phe  
355 360 365

Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala Leu  
370 375 380

Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys Asn  
385 390 395 400

Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala Asn  
405 410 415

Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys Ser  
420 425 430

Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys Ala  
435 440 445

Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu Leu  
450 455 460

Ala Gly Glu Glu Ala Pro Gln Glu Lys Gly Gly Xaa Gln Ala Gln His  
465 470 475 480

Arg Ser Leu Ser Pro Ser Glu Trp Arg Gly His Ile Thr Glu Gly Gly  
485 490 495

Glu Arg Arg Gly Gln Gly Ala Arg Gly Gly Ser Gly Leu Gly Gly Gly  
500 505 510

Ala Lys Val Trp Leu Leu  
515

<210> 863

<211> 438

<212> PRT

<213> Homo sapiens

<400> 863

Val Lys Gly Gln Gly Arg Gly Ser Arg Gly Ala Thr His Ala Leu Glu  
1 5 10 15

Ile Trp Val Ile Ala Ser Gly Arg Ser Ala Ser Pro Thr Pro Gln Thr  
20 25 30

Arg Ala Ala Asp Asp Pro Ala Ala Ala Met Ala Leu Leu Arg Gly Val  
35 40 45

Phe Val Val Ala Ala Lys Arg Thr Pro Phe Gly Ala Tyr Gly Gly Leu  
50 55 60

Leu Lys Asp Phe Thr Ala Thr Asp Leu Ser Glu Phe Ala Ala Lys Ala  
65 70 75 80

Ala Leu Ser Ala Gly Lys Val Ser Pro Glu Thr Val Asp Ser Val Ile  
85 90 95

Met Gly Asn Val Leu Gln Ser Ser Ser Asp Ala Ile Tyr Leu Ala Arg  
100 105 110

His Val Gly Leu Arg Val Gly Ile Pro Lys Glu Thr Pro Ala Leu Thr  
115 120 125

Ile Asn Arg Leu Cys Gly Ser Gly Phe Gln Ser Ile Val Asn Gly Cys  
130 135 140

Gln Glu Ile Cys Val Lys Glu Ala Glu Val Val Leu Cys Gly Gly Thr  
145 150 155 160

Glu Ser Met Ser Gln Ala Pro Tyr Cys Val Arg Asn Val Arg Phe Gly  
165 170 175

Thr Lys Leu Gly Ser Asp Ile Lys Leu Glu Asp Ser Leu Trp Val Ser  
180 185 190

Leu Thr Asp Gln His Val Gln Leu Pro Met Ala Met Thr Ala Glu Asn  
195 200 205

Leu Ala Val Lys His Lys Ile Ser Arg Glu Glu Cys Asp Lys Tyr Ala  
210 215 220

Leu Gln Ser Gln Gln Arg Trp Lys Ala Ala Asn Asp Ala Gly Tyr Phe  
225 230 235 240

Asn Asp Glu Met Ala Pro Ile Glu Val Lys Thr Lys Lys Gly Lys Gln  
245 250 255

Thr Met Gln Val Asp Glu His Ala Arg Pro Gln Thr Thr Leu Glu Gln  
260 265 270

Leu Gln Lys Leu Pro Pro Val Phe Lys Lys Asp Gly Thr Val Thr Ala  
275 280 285

Gly Asn Ala Ser Gly Val Ala Asp Gly Ala Gly Ala Val Ile Ile Ala  
290 295 300

Ser Glu Asp Ala Val Lys Lys His Asn Phe Thr Pro Leu Ala Arg Ile  
305 310 315 320

Val Gly Tyr Phe Val Ser Gly Cys Asp Pro Ser Ile Met Gly Ile Gly  
325 330 335

Pro Val Pro Ala Ile Ser Gly Ala Leu Lys Lys Ala Gly Leu Ser Leu  
340 345 350

Lys Asp Met Asp Leu Val Glu Val Asn Glu Ala Phe Ala Pro Gln Tyr  
355 360 365

Leu Ala Val Glu Arg Ser Leu Asp Leu Asp Ile Ser Lys Thr Asn Val  
370 375 380

Asn Gly Gly Ala Ile Ala Leu Gly His Pro Leu Gly Gly Ser Gly Ser  
385 390 395 400

Arg Ile Thr Ala His Leu Val His Glu Leu Arg Arg Arg Gly Gly Lys  
405 410 415

Tyr Ala Val Gly Ser Ala Cys Ile Gly Gly Gly Gln Gly Ile Ala Val  
420 425 430

Ile Ile Gln Ser Thr Ala  
435

<210> 864  
<211> 214  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (138)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 864  
Thr Leu Phe Asp Phe Ile Ser Leu Tyr Leu Ser Thr Asn Thr Lys Lys  
1 5 10 15

Val Ile Tyr Leu Asp Asp Asp Val Ile Val Gln Gly Asp Ile Gln Glu  
20 25 30

Leu Tyr Asp Thr Thr Leu Ala Leu Gly His Ala Ala Ala Phe Ser Asp  
35 40 45

Asp Cys Asp Leu Pro Ser Ala Gln Asp Ile Asn Arg Leu Val Gly Leu  
50 55 60

Gln Asn Thr Tyr Met Gly Tyr Leu Asp Tyr Arg Lys Lys Ala Ile Lys  
65 70 75 80

Asp Leu Gly Ile Ser Pro Ser Thr Cys Ser Phe Asn Pro Gly Val Ile  
85 90 95

Val Ala Asn Met Thr Glu Trp Lys His Gln Arg Ile Thr Lys Gln Leu  
100 105 110

Glu Lys Trp Met Gln Lys Asn Val Glu Glu Asn Leu Tyr Ser Ser Ser  
115 120 125

Leu Gly Gly Gly Val Ala Thr Ser Pro Xaa Leu Ile Val Phe His Gly  
130 135 140

Lys Tyr Ser Thr Ile Asn Pro Leu Trp His Ile Arg His Leu Gly Trp  
145 150 155 160

Asn Pro Asp Ala Arg Tyr Ser Glu His Phe Leu Gln Glu Ala Lys Leu  
165 170 175

Leu His Trp Asn Gly Arg His Lys Pro Trp Asp Phe Pro Ser Val His  
180 185 190

Asn Asp Leu Trp Glu Ser Trp Phe Val Pro Asp Pro Ala Gly Ile Phe  
195 200 205

Lys Leu Asn His His Ser  
210

<210> 865

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 865

Gly Ser Thr His Ala Ser Asp His Ile Pro Pro Leu Lys Lys Pro Leu  
1 5 10 15

Gly Ala Gln Leu Ile Thr Met Asp Trp Thr Trp Arg Phe Leu Phe Val  
20 25 30

Val Ala Ala Ala Thr Gly Val Gln Ser Gln Val Gln Leu Val Gln Ser  
35 40 45

Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys  
50 55 60

Ala Ser Gly Gly Thr Phe Ser Ser Tyr Ala Ile Ser Trp Val Arg Gln  
65 70 75 80

Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Ile Pro Ile Phe  
85 90 95

Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr  
100 105 110

Ala Asp Glu Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg  
115 120 125

Ser Glu Asp Thr Ala Xaa Tyr Tyr Cys Ala Xaa Xaa Pro Xaa Ala Gly  
130 135 140

Tyr Leu Ser Gln Leu Leu Pro Arg Tyr Gly Arg Leu Gly Pro Arg Asp  
145 150 155 160

His Gly His Arg Leu  
165

<210> 866

<211> 87

<212> PRT

<213> Homo sapiens

<400> 866

Lys Gln His Tyr Ile Ala Val Leu Tyr Tyr Ser Val Tyr Asp Val Cys  
1 5 10 15

Glu Asn Ala Arg Phe Lys Met Met Tyr Leu Phe Leu Val Lys Asn Lys  
20 25 30

Lys Phe Tyr Ala Ile Leu Leu Ile Lys Cys Lys Cys Asp Leu Val Gln  
35 40 45  
Phe Thr Lys Ile Thr Asp Ile Phe His Tyr Ile Glu Thr Val Thr Val  
50 55 60  
Arg Ile Gly His Lys His Gln Leu Leu Pro Ala Ser Gly Lys Leu Leu  
65 70 75 80  
Asn Arg Thr Ala Val Met Ser  
85

<210> 867  
<211> 101  
<212> PRT  
<213> Homo sapiens

<400> 867  
Phe Phe Gln Lys Ile Met Leu Ser Phe His Glu Glu Gln Glu Val Leu  
1 5 10 15  
Pro Glu Thr Phe Leu Ala Asn Phe Pro Ser Leu Ile Lys Met Asp Ile  
20 25 30  
His Lys Lys Val Thr Asp Pro Ser Val Ala Lys Ser Met Met Ala Cys  
35 40 45  
Leu Leu Ser Ser Leu Lys Ala Asn Gly Ser Arg Gly Ala Phe Cys Glu  
50 55 60  
Val Arg Pro Asp Asp Lys Arg Ile Leu Glu Phe Tyr Ser Lys Leu Gly  
65 70 75 80  
Cys Phe Glu Ile Ala Lys Met Glu Gly Phe Pro Lys Asp Val Val Ile  
85 90 95  
Leu Gly Arg Ser Leu  
100

<210> 868  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 868  
Leu Leu Pro Gly Ser Ala Leu Pro Gly Ala Cys Pro Arg Arg Trp Tyr

1                      5                      10                      15  
 Gly Ser Tyr Leu Val Trp Lys Glu Leu Gly Gly Phe Thr Glu Lys Ala  
                     20                      25                      30  
 Val Val Pro Leu Gly Leu Tyr Thr Gly Gln Leu Ala Leu Asn Trp Ala  
                     35                      40                      45  
 Trp Pro Pro Ile Phe Phe Gly Ala Arg Gln Met Gly Trp Ala Leu Val  
                     50                      55                      60  
 Asp Leu Leu Leu Val Ser Gly Ala Ala Ala Ala Leu Pro Trp Pro Gly  
                     65                      70                      75                      80  
 Thr Arg

<210> 869  
 <211> 562  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 869  
 Leu Lys Pro Glu Pro Asp Asp Leu Ile Asp Glu Asp Leu Asn Phe Val  
                     1                      5                      10                      15  
 Gln Xaa Asn Pro Leu Ser Xaa Lys Lys Pro Thr Val Thr Leu Thr Tyr  
                     20                      25                      30  
 Gly Ser Ser Arg Pro Ser Ile Glu Ile Tyr Arg Pro Pro Ala Ser Arg  
                     35                      40                      45  
 Asn Ala Asp Ser Gly Val His Leu Asn Arg Leu Gln Phe Gln Gln Gln  
                     50                      55                      60  
 Gln Asn Ser Ile His Ala Ala Lys Gln Leu Asp Met Gln Ser Ser Trp  
                     65                      70                      75                      80  
 Val Tyr Glu Thr Gly Arg Leu Cys Glu Pro Glu Val Leu Asn Ser Leu



85	90	95
Glu Glu Thr Tyr Ser Pro Phe Phe Arg Asn Asn Ser Glu Lys Met Ser		
100	105	110
Met Glu Asp Glu Asn Phe Arg Lys Arg Lys Leu Pro Val Val Ser Ser		
115	120	125
Val Val Lys Val Lys Lys Phe Asn His Asp Gly Glu Glu Glu Glu Glu		
130	135	140
Asp Asp Asp Tyr Gly Ser Arg Thr Gly Ser Ile Ser Ser Ser Val Ser		
145	150	155 160
Val Pro Ala Lys Pro Glu Arg Arg Pro Ser Leu Pro Pro Ser Lys Gln		
165	170	175
Ala Asn Lys Asn Leu Ile Leu Lys Ala Ile Ser Glu Ala Gln Glu Ser		
180	185	190
Val Thr Lys Thr Thr Asn Tyr Ser Thr Val Pro Gln Lys Gln Thr Leu		
195	200	205
Pro Val Ala Pro Arg Thr Arg Thr Ser Gln Glu Glu Leu Leu Ala Glu		
210	215	220
Val Val Gln Gly Gln Ser Arg Thr Pro Arg Ile Ser Pro Pro Ile Lys		
225	230	235 240
Glu Glu Glu Thr Lys Gly Asp Ser Val Glu Lys Asn Gln Gly Thr Gln		
245	250	255
Gln Arg Gln Leu Leu Ser Arg Leu Gln Ile Asp Pro Val Met Ala Glu		
260	265	270
Thr Leu Gln Met Ser Gln Asp Tyr Tyr Asp Met Glu Ser Met Val His		
275	280	285
Ala Asp Thr Arg Ser Phe Ile Leu Lys Lys Pro Lys Leu Ser Glu Glu		
290	295	300
Val Val Val Ala Pro Asn Gln Glu Ser Gly Met Lys Thr Ala Asp Ser		
305	310	315 320
Leu Arg Val Leu Ser Gly His Leu Met Gln Thr Arg Asp Leu Val Gln		
325	330	335
Pro Asp Lys Pro Ala Ser Pro Lys Phe Ile Val Thr Leu Asp Gly Val		
340	345	350
Pro Ser Pro Pro Gly Tyr Met Ser Asp Gln Glu Glu Asp Met Cys Phe		

355	360	365
Glu Gly Met Lys Pro Val Asn Gln Thr Ala Ala Ser Asn Lys Gly Leu		
370	375	380
Arg Gly Leu Leu His Pro Gln Gln Leu His Leu Leu Ser Arg Gln Leu		
385	390	395 400
Glu Asp Pro Asn Gly Ser Phe Ser Asn Ala Glu Met Ser Glu Leu Ser		
405	410	415
Val Ala Gln Lys Pro Glu Lys Leu Leu Glu Arg Cys Lys Tyr Trp Pro		
420	425	430
Ala Cys Lys Asn Gly Asp Glu Cys Ala Tyr His His Pro Ile Ser Pro		
435	440	445
Cys Lys Ala Phe Pro Asn Cys Lys Phe Ala Glu Lys Cys Leu Phe Val		
450	455	460
His Pro Asn Cys Lys Tyr Asp Ala Lys Cys Thr Lys Pro Asp Cys Pro		
465	470	475 480
Phe Thr His Val Ser Arg Arg Ile Pro Val Leu Ser Pro Lys Pro Val		
485	490	495
Ala Pro Pro Ala Pro Pro Ser Ser Ser Gln Leu Cys Arg Tyr Phe Pro		
500	505	510
Ala Cys Lys Lys Met Glu Cys Pro Phe Tyr His Pro Lys His Cys Arg		
515	520	525
Phe Asn Thr Gln Cys Thr Arg Pro Asp Cys Thr Phe Tyr His Pro Thr		
530	535	540
Ile Asn Val Pro Pro Arg His Ala Leu Lys Trp Ile Arg Pro Gln Thr		
545	550	555 560
Ser Glu		

&lt;210&gt; 870

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 870

Pro Asn Gly Ser Ser Asn Val Cys Val Ser Leu Cys Val Phe Val Cys

1 5 10 15

Val Cys Ala Leu Lys Thr Ser Asn Ser Leu Glu Ala Trp Gly Gly Ile  
20 25 30

Pro Ala Leu Pro Leu Ala Cys Leu Met His His Gln Met Thr Arg Thr  
35 40 45

Thr Leu Met Thr Lys Gln His Glu Leu Gly Gly Leu Leu Ala Leu Val  
50 55 60

Gln Asn Cys Gln Ser Glu Met Asn Ile Lys Asp Ser Arg Ala Val Gly  
65 70 75 80

Leu Ser Val Lys Arg Leu Cys Ile Ser Phe Val Asp Glu Phe Cys Glu  
85 90 95

Arg Thr Glu Arg Pro Leu Tyr Leu Ala Gln Gly Leu Phe Met Lys Arg  
100 105 110

Glu Thr Tyr Trp Glu Val Gln Asp Ser Gly Ile Ser Pro Leu Leu Leu  
115 120 125

Leu Leu Ser Thr Ala Leu Asp Cys Ser Pro Glu Ala Glu Thr Arg Gln  
130 135 140

Ser Pro Gly Gly Arg Lys Met Leu Gln Glu Pro Thr Leu Ser Met Ser  
145 150 155 160

Leu Gln Ile Leu Thr Gly Phe Leu Trp Val Gln Leu Trp Asn Trp Glu  
165 170 175

Thr Phe Leu Arg Ile Arg Thr His Ser Thr Asp Ala Ser Cys Pro  
180 185 190

<210> 871

<211> 75

<212> PRT

<213> Homo sapiens

<400> 871

Leu Phe Lys Val Ser Asn Val His Pro Gly Leu Gly Ile Thr Asn Val  
1 5 10 15

Gly Val Lys Met Pro Thr Lys Gly Phe Ser Ala Leu Glu Val Leu Arg  
20 25 30

Ser Pro Ile Cys Ile Lys Ala Asp Pro Phe Cys Lys Asp Leu Ser Phe  
35 40 45

Arg Thr Phe Ser Val Leu Leu Val Arg Thr Leu Glu Val Ile Leu Ile  
50 55 60

Ile Ser Thr Asp Ser Leu Thr Ala Glu Ala Thr  
65 70 75

<210> 872  
<211> 203  
<212> PRT  
<213> Homo sapiens

<400> 872  
Asn Ser Ala Arg Gly Asp Gln Glu Ser Thr Cys Ala Glu Val Leu Val  
1 5 10 15

Ile Trp Ser Leu Phe Pro Ser Gly Tyr Gln Leu Pro Ser Ala Ala Gln  
20 25 30

Ala Val Val Pro Glu Ala Arg Gly Arg Ser Gln Thr Cys Gly Asn Phe  
35 40 45

Ala Val Tyr Leu Gln Gly Cys Cys Phe Gln Gln Asp Pro Lys Leu Glu  
50 55 60

Lys Glu Glu Glu Glu Thr Asp Pro Ile Ser Ala Arg Ser His Cys Ile  
65 70 75 80

Gln Arg Arg Ile Ser Lys Lys Glu Lys Lys Glu Gly Arg Glu Val Asp  
85 90 95

Arg Tyr Lys Met Lys Ser Cys Gln Lys Met Glu Gly Lys Pro Glu Asn  
100 105 110

Glu Ser Glu Pro Lys His Glu Glu Glu Pro Lys Pro Glu Glu Lys Pro  
115 120 125

Glu Glu Glu Glu Lys Leu Glu Glu Glu Ala Lys Ala Lys Gly Thr Phe  
130 135 140

Arg Glu Arg Leu Ile Gln Ser Leu Gln Glu Phe Lys Glu Asp Ile His  
145 150 155 160

Asn Arg His Leu Ser Asn Glu Asp Met Phe Arg Glu Val Asp Glu Ile  
165 170 175

Asp Glu Ile Arg Arg Val Arg Asn Lys Leu Ile Val Met Arg Trp Lys  
180 185 190

Val Asn Arg Asn His Pro Tyr Pro Tyr Leu Met

195

200

&lt;210&gt; 873

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 873

Ser Leu Gln Pro Leu Pro Pro Arg Phe Lys Gln Phe Leu Cys Leu Ser  
1 5 10 15

Leu Pro Ser Asn Trp Asp Tyr Arg Cys Thr Leu Pro His Leu Ala Asp  
20 25 30

Phe Phe Tyr Val Leu Val Glu Thr Gly Phe Gln Pro Cys Cys Pro Gly  
35 40 45

Trp Ser Gln Thr Pro Glu Leu Arg Gln Ser Thr Arg Leu Gly Leu Pro  
50 55 60

Lys Cys  
65

&lt;210&gt; 874

&lt;211&gt; 231

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 874

Val Lys Leu Lys Glu Glu Phe Ser Leu Ser Gly Arg Ile Ile Asp Cys  
1 5 10 15

Ala Phe Thr Val Thr Phe Asn Pro Lys Tyr Asp Thr Leu Leu Lys Ala  
20 25 30

Val Lys Asp Ala Thr Asn Thr Gly Ile Lys Cys Ala Gly Ile Asp Val  
35 40 45

Arg Leu Cys Asp Val Gly Glu Ala Ile Gln Glu Val Met Glu Ser Tyr  
50 55 60

Glu Val Glu Ile Asp Gly Lys Thr Tyr Gln Val Lys Pro Ile Arg Asn  
65 70 75 80

Leu Asn Gly His Ser Ile Gly Gln Tyr Arg Ile His Ala Gly Lys Thr  
85 90 95

Val Pro Ile Val Lys Gly Gly Glu Ala Thr Arg Met Glu Glu Gly Glu  
100 105 110

Val Tyr Ala Ile Glu Thr Phe Gly Ser Thr Gly Lys Gly Val Val His  
115 120 125

Asp Asp Met Glu Cys Ser His Tyr Met Lys Asn Phe Asp Val Gly His  
130 135 140

Val Pro Ile Arg Leu Pro Arg Thr Lys His Leu Leu Asn Val Ile Asn  
145 150 155 160

Glu Asn Phe Gly Thr Leu Ala Phe Cys Arg Arg Trp Leu Asp Arg Leu  
165 170 175

Gly Glu Ser Lys Tyr Leu Met Ala Leu Lys Asn Leu Cys Asp Leu Gly  
180 185 190

Ile Val Asp Pro Tyr Pro Pro Leu Cys Asp Ile Lys Gly Ser Tyr Thr  
195 200 205

Ala Gln Phe Glu His Thr Ile Leu Leu Arg Pro Thr Cys Lys Glu Val  
210 215 220

Val Ser Arg Gly Asp Asp Tyr  
225 230

<210> 875

<211> 88

<212> PRT

<213> Homo sapiens

<400> 875

Cys Leu Tyr Tyr Gln Val Leu Ser Thr Ile Leu Ile Thr Asn Cys Asp  
1 5 10 15

Lys Phe Phe Leu Phe Phe Phe Pro Leu Pro His Tyr Phe Leu Met Asn  
20 25 30

Lys Pro Lys Ile His Gly Glu Gln Leu Gln Cys Trp Leu Ile Tyr Leu  
35 40 45

Leu Cys Thr Gly Asn Leu Lys Arg Thr Val Asp Ser Phe Arg Ser Val  
50 55 60

Thr Gly Ala Val Ile Ile Ala Ile His Leu Leu Val Val Leu His Leu  
65 70 75 80

Phe His Ala Ser Phe Leu Asn Val

85

<210> 876  
<211> 330  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (138)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (174)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (178)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (194)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 876  
Asn Ser Ala Arg Ala Val Gln Gly Leu Leu Glu Val Ala Lys Asp Ser  
1 5 10 15

Ile Pro Arg Ser His Trp Lys Lys Thr Pro Val Val Leu Lys Ala Thr  
20 25 30

Ala Gly Leu Arg Leu Leu Pro Glu His Lys Ala Lys Ala Leu Leu Phe  
35 40 45

Glu Val Lys Glu Ile Phe Arg Lys Ser Pro Phe Leu Val Pro Lys Gly  
50 55 60

Ser Val Ser Ile Met Asp Gly Ser Asp Glu Gly Ile Leu Ala Trp Val  
65 70 75 80

Thr Val Asn Phe Leu Thr Gly Gln Leu His Gly His Arg Gln Glu Thr  
85 90 95

Xaa Gly Thr Leu Asp Leu Gly Gly Ala Xaa Thr Gln Ile Thr Phe Leu  
100 105 110

Pro Gln Phe Glu Lys Thr Leu Glu Gln Thr Pro Xaa Gly Tyr Leu Thr  
115 120 125

Ser Phe Glu Met Phe Asn Ser Thr Tyr Xaa Leu Tyr Thr His Ser Tyr  
130 135 140

Leu Gly Phe Gly Leu Lys Ala Ala Arg Leu Ala Thr Leu Gly Ala Leu  
145 150 155 160

Glu Thr Glu Gly Thr Asp Gly His Thr Phe Arg Ser Ala Xaa Leu Pro  
165 170 175

Arg Xaa Leu Glu Ala Glu Trp Ile Phe Gly Gly Val Lys Tyr Gln Tyr  
180 185 190

Gly Xaa Asn Gln Glu Gly Glu Val Gly Phe Glu Pro Cys Tyr Ala Glu  
195 200 205

Val Leu Arg Val Val Arg Gly Lys Leu His Gln Pro Glu Glu Val Gln  
210 215 220

Arg Gly Ser Phe Tyr Ala Phe Ser Tyr Tyr Tyr Asp Arg Ala Val Asp  
225 230 235 240

Thr Asp Met Ile Asp Tyr Glu Lys Gly Gly Ile Leu Lys Val Glu Asp  
245 250 255

Phe Glu Arg Lys Ala Arg Glu Val Cys Asp Asn Leu Glu Asn Phe Thr  
260 265 270

Ser Gly Ser Pro Phe Leu Cys Met Asp Leu Ser Tyr Ile Thr Ala Leu  
275 280 285

Leu Lys Asp Gly Phe Gly Phe Ala Asp Ser Thr Val Leu Gln Leu Thr  
290 295 300



Lys Lys Val Asn Asn Ile Glu Thr Gly Trp Ala Leu Gly Ala Thr Phe  
305 310 315 320

His Leu Leu Gln Ser Leu Gly Ile Ser His  
325 330

<210> 877  
<211> 102  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (100)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 877  
Asp Leu His Ser Gln Trp Gly Thr Trp Pro Pro Ile Leu Gly Asp Leu  
1 5 10 15

Arg Lys Arg Thr Ser Pro Trp Gly Glu Gly Trp Val Gly Pro Glu Gly  
20 25 30

Pro Val Pro Ser Ser Val Leu Arg Gly Arg Ala Thr Cys Ser Asn Gly  
35 40 45

Ile Cys Ile Leu Ala Pro Leu His Leu Leu Ser Pro Ala Glu Ser Phe  
50 55 60

Pro Ser Lys Pro Lys Ser Cys His Cys Phe Phe Leu Pro Gly Lys Asn  
65 70 75 80

Ala Trp Thr Leu Pro Gly Asp Arg Leu Lys Pro Glu Gln Cys His Thr  
85 90 95

Leu Ala Leu Xaa Pro Cys  
100

<210> 878  
<211> 135  
<212> PRT  
<213> Homo sapiens

<400> 878  
Thr Leu Glu Ser Lys Ala Asp Thr Glu Ala Ser Arg Leu Gln Glu Tyr  
1 5 10 15

Arg Ser Gln Val Leu Ser Val Gly Leu Gly Cys Val Ser Trp Gly Lys  
20 25 30

Lys Asn Cys Glu Lys Pro Gln Ser Ser Ile Phe Thr Val Thr His Gly  
35 40 45

Arg Ser Leu Asn Cys Leu Val Asn Lys Asn Glu Ser Leu Ser Gln Arg  
50 55 60

Lys Pro Arg Gln Tyr Pro Ser Ser Thr Thr Cys Glu Asn Pro Asp Val  
65 70 75 80

Pro Gln Gln Arg Lys Thr Leu Gln Ala Gly Lys Met Arg Arg Phe Phe  
85 90 95

Phe Phe Val Ser Met Met Ile Phe Ala Ala Thr Trp Leu Trp Arg Ala  
100 105 110

Ala Asp Thr Pro Ser Tyr Ser Arg Gly Cys Phe Leu Glu Ala Asp Ser  
115 120 125

Val Cys Ser Leu Val Glu Leu  
130 135

&lt;210&gt; 879

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (168)

&lt;223&gt; xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 879

Val Ile Cys Met Trp Gln Gly Cys Ala Val Glu Arg Pro Val Gly Arg  
1 5 10 15

Met Thr Ser Gln Thr Pro Leu Pro Gln Ser Pro Arg Pro Arg Arg Pro  
20 25 30

Thr Met Ser Thr Val Val Glu Leu Asn Val Gly Gly Glu Phe His Thr  
35 40 45

Thr Thr Leu Gly Thr Leu Arg Lys Phe Pro Gly Ser Lys Leu Ala Glu  
50 55 60

Met Phe Ser Ser Leu Ala Lys Ala Ser Thr Asp Ala Glu Gly Arg Phe  
65 70 75 80

Phe Ile Asp Arg Pro Ser Thr Tyr Phe Arg Pro Ile Leu Asp Tyr Leu  
85 90 95

Arg Thr Gly Gln Val Pro Thr Gln His Ile Pro Glu Val Tyr Arg Glu  
100 105 110

Ala Gln Phe Tyr Glu Ile Lys Pro Leu Val Lys Leu Leu Glu Asp Met  
115 120 125

Pro Gln Ile Phe Gly Glu Gln Val Ser Arg Lys Gln Phe Leu Leu Gln  
130 135 140

Cys Arg Ala Thr Ala Arg Thr Trp Glu Leu Met Val Arg Leu Ala Arg  
145 150 155 160

Ala Glu Ala Ile Thr Ala Arg Xaa Ser Arg Cys Leu Cys Ala Trp  
165 170 175

<210> 880

<211> 397

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (311)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 880

Trp Glu Tyr Asp Met Ala Arg Glu Leu Arg Ala Leu Leu Leu Trp Gly  
1 5 10 15

Arg Arg Leu Arg Pro Leu Leu Arg Ala Pro Ala Leu Ala Ala Val Pro  
20 25 30

Gly Gly Lys Pro Ile Leu Cys Pro Arg Arg Thr Thr Ala Gln Leu Gly  
35 40 45

Pro Arg Arg Asn Pro Ala Trp Ser Leu Gln Ala Gly Arg Leu Phe Ser  
50 55 60

Thr Gln Thr Ala Glu Asp Lys Glu Glu Pro Leu His Ser Ile Ile Ser  
65 70 75 80

Ser Thr Glu Ser Val Gln Gly Ser Thr Ser Lys His Glu Phe Gln Ala  
85 90 95

Glu Thr Lys Lys Leu Leu Asp Ile Val Ala Arg Ser Leu Tyr Ser Glu

100	105	110
Lys Glu Val Phe Ile Arg Glu Leu Ile Ser Asn Ala Ser Asp Ala Leu		
115	120	125
Glu Lys Leu Arg His Lys Leu Val Ser Asp Gly Gln Ala Leu Pro Glu		
130	135	140
Met Glu Ile His Leu Gln Thr Asn Ala Glu Lys Gly Thr Ile Thr Ile		
145	150	155
Gln Asp Thr Gly Ile Gly Met Thr Gln Glu Leu Val Ser Asn Leu		
165	170	175
Gly Thr Ile Ala Arg Ser Gly Ser Lys Ala Phe Leu Asp Ala Leu Gln		
180	185	190
Asn Gln Ala Glu Ala Ser Ser Lys Ile Ile Gly Gln Phe Gly Val Gly		
195	200	205
Phe Tyr Ser Ala Phe Met Val Ala Asp Arg Val Glu Val Tyr Ser Arg		
210	215	220
Ser Ala Ala Pro Gly Ser Leu Gly Tyr Gln Trp Leu Ser Asp Gly Ser		
225	230	235
Gly Val Phe Glu Ile Ala Glu Ala Ser Gly Val Arg Thr Gly Thr Lys		
245	250	255
Ile Ile Ile His Leu Lys Ser Asp Cys Lys Glu Phe Ser Ser Glu Ala		
260	265	270
Arg Val Arg Asp Val Val Thr Lys Tyr Ser Asn Phe Val Ser Phe Pro		
275	280	285
Leu Tyr Leu Asn Gly Arg Arg Met Asn Thr Leu Gln Ala Ile Trp Met		
290	295	300
Met Asp Pro Lys Asp Val Xaa Glu Trp Gln His Glu Glu Phe Tyr Arg		
305	310	315
Tyr Val Ala Gln Ala His Asp Lys Pro Arg Tyr Thr Leu His Tyr Lys		
325	330	335
Thr Asp Ala Pro Leu Asn Ile Arg Ser Ile Phe Tyr Val Pro Asp Met		
340	345	350
Lys Pro Ser Met Phe Asp Val Ser Arg Glu Leu Gly Ser Ser Val Cys		
355	360	365
Thr Val Gln Pro Gln Ser Pro His Pro Asp Gln Gly His Gly His Pro		

370

375

380

Ala Gln Val Ala Ala Leu His Pro Arg Cys Gly Gly Gln

385

390

395

&lt;210&gt; 881

&lt;211&gt; 187

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 881

Ile Ser Leu Phe Pro Pro Pro Gly Pro Gln Leu Cys Leu Pro Asp Lys

1

5

10

15

Glu Gly Gln His Ser Lys Ser Arg Ser Ala Ile Tyr Leu Pro Val Arg

20

25

30

Ser Thr Asn Ser Ser Val Arg Lys Met Ala Gly Asn Ser Ile Leu Leu

35

40

45

Ala Ala Val Ser Ile Leu Ser Ala Cys Gln Gln Ser Tyr Phe Ala Leu

50

55

60

Gln Val Gly Lys Ala Arg Leu Lys Tyr Lys Val Thr Pro Pro Ala Val

65

70

75

80

Thr Gly Ser Pro Glu Phe Glu Arg Val Phe Arg Ala Gln Gln Asn Cys

85

90

95

Val Glu Phe Tyr Pro Ile Phe Ile Ile Thr Leu Trp Met Ala Gly Trp

100

105

110

Tyr Phe Asn Gln Val Phe Ala Thr Cys Leu Gly Leu Val Tyr Ile Tyr

115

120

125

Gly Arg His Leu Tyr Phe Trp Gly Tyr Ser Glu Ala Ala Lys Lys Arg

130

135

140

Ile Thr Gly Phe Arg Leu Ser Leu Gly Ile Leu Ala Leu Leu Thr Leu

145

150

155

160

Leu Gly Ala Leu Gly Ile Ala Asn Ser Phe Leu Asp Glu Tyr Leu Asp

165

170

175

Leu Asn Ile Ala Lys Lys Leu Arg Arg Gln Phe

180

185

<210> 882  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 882  
 Thr Thr Asn Ile Gln Gln Gly His Phe Leu Lys Arg Glu Ser Ala Phe  
     1                    5                    10                    15  
 Asn Glu Met Thr Met Val Asp Thr Glu Met Pro Phe Trp Pro Thr Asn  
             20                    25                    30  
 Phe Gly Ile Ser Ser Val Asp Leu Ser Val Met Glu Asp His Ser His  
             35                    40                    45  
 Ser Phe Asp Ile Lys Pro Phe Thr Thr Val Asp Phe Ser Ser Ile Ser  
             50                    55                    60  
 Thr Pro His Tyr Glu Asp Ile Pro Phe Thr Arg Thr Asp Pro Val Val  
             65                    70                    75                    80  
 Ala Asp Tyr Lys Tyr Asp Leu Lys Leu Gln Glu Tyr Gln Ser Ala Xaa  
                     85                    90                    95  
 Lys Val Glu Pro Ala Ser Pro Pro Tyr Tyr Ser Glu Lys Thr Gln Xaa  
             100                    105                    110  
 Tyr Asn Lys Pro His Glu Glu Pro Ser Asn Ser Leu Met Ala Ile Glu  
             115                    120                    125

<210> 883  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 883

Ser Asn Glu Phe Ile Thr Asn Phe Xaa Gln Ala Leu Ser Gly Tyr Cys  
 1 5 10 15

Gly Phe Met Ala Ala Xaa Leu Tyr Ala Arg Ser Ile Phe Gly Glu Asp  
 20 25 30

Ala Leu Ala Asn Val Ser Ile Glu Lys Pro Ile His Gln Gly Pro Asp  
 35 40 45

Ala Ala Val Thr Gly His Ile Arg Ile Arg Ala Lys Ser Gln Gly Met  
 50 55 60

Ala Leu Ser Leu Gly Asp Lys Ile Asn Leu Ser Gln Lys Lys Thr Ser  
 65 70 75 80

Ile

<210> 884  
 <211> 293  
 <212> PRT  
 <213> Homo sapiens

<400> 884

Gly Ala Asn Asn Gly Gly Ser Lys Leu Thr Gln Thr Pro Lys Leu Gln  
 1 5 10 15

Glu Leu Met Lys Val Leu Ile Asp Trp Ile Asn Asp Val Leu Val Gly  
 20 25 30

Glu Arg Ile Ile Val Lys Asp Leu Ala Glu Asp Leu Tyr Asp Gly Gln  
 35 40 45

Val Leu Gln Lys Leu Phe Glu Lys Leu Glu Ser Glu Lys Leu Asn Val  
 50 55 60

Ala Glu Val Thr Gln Ser Glu Ile Ala Gln Lys Gln Lys Leu Gln Thr  
 65 70 75 80

Val Leu Glu Lys Ile Asn Glu Thr Leu Lys Leu Pro Pro Arg Ser Ile  
                             85                            90                            95  
 Lys Trp Asn Val Asp Ser Val His Ala Lys Ser Leu Val Ala Ile Leu  
                             100                            105                            110  
 His Leu Leu Val Ala Leu Ser Gln Tyr Phe Arg Ala Pro Ile Arg Leu  
                             115                            120                            125  
 Pro Asp His Val Ser Ile Gln Val Val Val Val Gln Lys Arg Glu Gly  
                             130                            135                            140  
 Ile Leu Gln Ser Arg Gln Ile Gln Glu Glu Ile Thr Gly Asn Thr Glu  
                             145                            150                            155                            160  
 Ala Leu Ser Gly Arg His Glu Arg Asp Ala Phe Asp Thr Leu Phe Asp  
                             165                            170                            175  
 His Ala Pro Asp Lys Leu Asn Val Val Lys Lys Thr Leu Ile Thr Phe  
                             180                            185                            190  
 Val Asn Lys His Leu Asn Lys Leu Asn Leu Glu Val Thr Glu Leu Glu  
                             195                            200                            205  
 Thr Gln Phe Ala Asp Gly Val Tyr Leu Val Leu Leu Met Gly Leu Leu  
                             210                            215                            220  
 Glu Gly Tyr Phe Val Pro Leu His Ser Phe Phe Leu Thr Pro Asp Ser  
                             225                            230                            235                            240  
 Phe Glu Gln Lys Val Leu Asn Val Ser Phe Ala Phe Glu Leu Met Gln  
                             245                            250                            255  
 Asp Gly Gly Leu Glu Lys Pro Lys Pro Arg Pro Glu Asp Ile Val Asn  
                             260                            265                            270  
 Cys Asp Leu Lys Ser Thr Leu Arg Val Leu Tyr Asn Leu Phe Thr Lys  
                             275                            280                            285  
 Tyr Arg Asn Val Glu  
                             290

&lt;210&gt; 885

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 885

Tyr Val Tyr Leu Ile Ile Leu Pro Leu Ala Lys Cys Tyr Val Cys Lys



1                      5                      10                      15  
 Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr  
                     20                      25                      30  
 Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Lys Gly Ser Val  
                     35                      40                      45  
 Met Ser Asp Thr Gln Glu Lys Gln Ile Ser Val Val Ser Leu Lys Tyr  
                     50                      55                      60  
 Asn Phe Lys Gly His Tyr Gln Gln Gln Gly Phe Phe Tyr Thr Leu Lys  
                     65                      70                      75                      80  
 Thr Leu Cys Tyr Ile Ser Leu Pro Phe Ser Tyr Phe Gly Val Leu Leu  
                     85                      90                      95  
 Leu Leu Tyr Asn Gly Ile Asn Gly Asn Val Ile Gln Pro Leu Asn Cys  
                     100                      105                      110  
 His Tyr Tyr Ile  
                     115

&lt;210&gt; 886

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 886

Tyr Glu His Leu Phe Tyr Lys Phe Tyr Lys Ser Met Leu Asn Leu Arg  
   1                      5                      10                      15  
 Lys Thr Lys Gln Val Cys Leu Tyr Ser Gln Lys Leu Cys His Leu Ser  
                     20                      25                      30  
 Gln Tyr Asp Phe Asn Met Cys Ile Asn Gly Lys Gln Gly Lys Val Phe  
                     35                      40                      45  
 Ser Asn Ile Thr Val Leu Leu Gly Asn Leu Cys Arg Val His Ile Asn  
                     50                      55                      60  
 Ala Ser Tyr Ile Thr Leu Ile Cys Phe Leu Cys Trp Pro Tyr Arg Gly  
   65                      70                      75                      80

&lt;210&gt; 887

&lt;211&gt; 416

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 887

Thr Phe Pro Pro Glu Phe Val Ile Pro Leu Ser Glu Val Thr Cys Glu  
1 5 10 15

Thr Gly Glu Thr Val Val Leu Arg Cys Arg Val Cys Gly Arg Pro Lys  
20 25 30

Ala Ser Ile Thr Trp Lys Gly Pro Glu His Asn Thr Leu Asn Asn Asp  
35 40 45

Gly His Tyr Ser Ile Ser Tyr Ser Asp Leu Gly Glu Ala Thr Leu Lys  
50 55 60

Ile Val Gly Val Thr Thr Glu Asp Asp Gly Ile Tyr Thr Cys Ile Ala  
65 70 75 80

Val Asn Asp Met Gly Ser Ala Ser Ser Ser Ala Ser Leu Arg Val Leu  
85 90 95

Gly Pro Gly Met Asp Gly Ile Met Val Thr Trp Lys Asp Asn Phe Asp  
100 105 110

Ser Phe Tyr Ser Glu Val Ala Glu Leu Gly Arg Gly Arg Phe Ser Val  
115 120 125

Val Lys Lys Cys Asp Gln Lys Gly Thr Lys Arg Ala Val Ala Thr Lys  
130 135 140

Phe Val Asn Lys Lys Leu Met Lys Arg Asp Gln Val Thr His Glu Leu  
145 150 155 160

Gly Ile Leu Gln Ser Leu Gln His Pro Leu Leu Val Gly Leu Leu Asp  
165 170 175

Thr Phe Glu Thr Pro Thr Ser Tyr Ile Leu Val Leu Glu Met Ala Asp  
180 185 190

Gln Gly Arg Leu Leu Asp Cys Val Val Arg Trp Gly Ser Leu Thr Glu  
195 200 205

Gly Lys Ile Arg Ala His Leu Gly Glu Val Leu Glu Ala Val Arg Tyr  
210 215 220

Leu His Asn Cys Arg Ile Ala His Leu Asp Leu Lys Pro Glu Asn Ile  
225 230 235 240

Leu Val Asp Glu Ser Leu Ala Lys Pro Thr Ile Lys Leu Ala Asp Phe  
245 250 255

Gly Asp Ala Val Gln Leu Asn Thr Thr Tyr Tyr Ile His Gln Leu Leu  
260 265 270

Gly Asn Pro Glu Phe Ala Ala Pro Glu Ile Ile Leu Gly Asn Pro Val  
275 280 285

Ser Leu Thr Ser Asp Thr Trp Ser Val Gly Val Leu Thr Tyr Val Leu  
290 295 300

Leu Ser Gly Val Ser Pro Phe Leu Asp Asp Ser Val Glu Glu Thr Cys  
305 310 315 320

Leu Asn Ile Cys Arg Leu Asp Phe Ser Phe Pro Asp Asp Tyr Phe Lys  
325 330 335

Gly Val Ser Gln Lys Ala Lys Glu Phe Val Cys Phe Ser Cys Arg Arg  
340 345 350

Thr Pro Pro Ser Val Pro Arg Leu Arg Trp Pro Ser Arg Ser Ser Gly  
355 360 365

Cys Arg Pro Ala Thr Ala Glu Ser Thr Gly Val Leu Asp Thr Ser Arg  
370 375 380

Leu Thr Ser Phe Ile Glu Arg Arg Lys His Gln Asn Asp Val Arg Pro  
385 390 395 400

Ile Arg Ser Ile Lys Asn Phe Leu Gln Ser Arg Leu Leu Pro Arg Val  
405 410 415

<210> 888

<211>. 368

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

**<400> 888**

Arg Gln Arg Arg Lys Gly Gly Gln Glu Arg Gly Arg Arg Gly Lys Met  
1 5 10 15

Ala Ala Thr Lys Arg Lys Arg Arg Gly Gly Phe Ala Val Gln Ala Lys  
20 25 30

Lys Pro Lys Arg Asn Glu Ile Asp Ala Glu Pro Pro Ala Lys Arg His  
35 40 45

Ala Thr Ala Glu Glu Val Glu Glu Glu Glu Arg Asp Arg Ile Pro Gly  
50 55 60

Pro Val Cys Lys Gly Lys Trp Lys Asn Lys Glu Arg Ile Leu Ile Phe  
65 70 75 80

Ser Ser Arg Gly Ile Asn Phe Arg Thr Arg His Leu Met Gln Asp Leu  
85 90 95

Arg Met Leu Met Pro His Ser Lys Ala Asp Thr Lys Met Asp Arg Lys  
100 105 110

Asp Lys Leu Phe Val Ile Asn Glu Val Cys Glu Met Lys Asn Cys Asn  
115 120 125

Lys Cys Ile Tyr Phe Glu Ala Lys Lys Lys Gln Asp Leu Tyr Met Trp  
130 135 140

Leu Ser Asn Ser Pro His Gly Pro Ser Ala Lys Phe Leu Val Gln Asn  
145 150 155 160

Ile His Thr Leu Ala Glu Leu Lys Met Thr Gly Asn Cys Leu Lys Gly  
165 170 175

Ser Arg Pro Leu Leu Ser Phe Asp Pro Ala Phe Asp Glu Leu Pro His  
180 185 190

Tyr Ala Leu Xaa Lys Glu Leu Leu Ile Gln Ile Phe Ser Thr Pro Arg  
195 200 205

Tyr His Pro Lys Ser Gln Pro Phe Val Asp His Val Phe Thr Phe Thr  
210 215 220

Ile Leu Asp Asn Arg Ile Trp Phe Arg Asn Phe Gln Ile Ile Glu Glu  
225 230 235 240

Asp Ala Ala Leu Val Glu Ile Gly Pro Arg Phe Val Leu Asn Leu Ile  
245 250 255

Lys Ile Phe Gln Gly Ser Phe Gly Gly Pro Thr Leu Tyr Glu Asn Pro  
260 265 270

His Tyr Gln Ser Pro Asn Met His Arg Arg Val Ile Arg Ser Ile Thr  
275 280 285

Ala Ala Lys Tyr Arg Glu Lys Gln Gln Val Lys Asp Val Gln Lys Leu  
290 295 300

Arg Lys Lys Glu Pro Lys Thr Leu Leu Pro His Asp Pro Thr Ala Asp  
305 310 315 320

Val Phe Val Thr Pro Ala Glu Glu Lys Pro Ile Glu Ile Gln Trp Val  
325 330 335

Lys Pro Glu Pro Lys Val Asp Leu Lys Ala Arg Lys Lys Arg Ile Tyr  
340 345 350

Lys Arg Gln Arg Lys Met Lys Gln Arg Met Asp Ser Gly Lys Thr Lys  
355 360 365

<210> 889

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 889

Leu Ala Ser Ala Trp Cys Ser Cys Ala Arg Val Ser Ala Gly Ser Ala  
1 5 10 15

Leu Arg Phe Pro Gly Met Glu Ser Glu Met Glu Thr Gln Ser Ala Xaa  
20 25 30

Ala Glu Glu Gly Phe Thr Gln Val Thr Arg Lys Gly Gly Arg Arg Ala  
35 40 45

Lys Lys Arg Gln Ala Glu Gln Leu Ser Ala Ala Gly Glu Gly Gly Asp  
50 55 60

Ala Gly Arg Met Asp Thr Glu Glu Ala Arg Pro Ala Lys Arg Pro Val  
65 70 75 80

Phe Pro Pro Leu Cys Gly Asp Gly Leu Leu Ser Gly Lys Glu Glu Thr  
85 90 95

Arg Lys Ile Pro Val Pro Ala Asn Arg Tyr Thr Pro Leu Lys Glu Asn

100	105	110
Trp Met Lys Ile Phe Thr Pro Ile Val Glu His Leu Gly Leu Gln Ile		
115	120	125
Arg Phe Asn Leu Lys Ser Arg Asn Val Glu Ile Arg Thr Cys Lys Glu		
130	135	140
Thr Lys Asp Val Ser Ala Leu Thr Lys Ala Ala Asp Phe Val Lys Ala		
145	150	155
Phe Ile Leu Gly Phe Gln Val Glu Asp Ala Leu Ala Leu Ile Arg Leu		
165	170	175
Asp Asp Leu Phe Leu Glu Ser Phe Glu Ile Thr Asp Val Lys Pro Leu		
180	185	190
Lys Gly Asp His Leu Ser Arg Ala Ile Gly Arg Ile Ala Gly Lys Gly		
195	200	205
Gly Lys Thr Lys Phe Thr Ile Glu Asn Val Thr Arg Thr Arg Ile Val		
210	215	220
Leu Ala Asp Val Lys Val His Ile Leu Gly Ser Phe Gln Asn Ile Lys		
225	230	235
Met Ala Arg Thr Ala Ile Cys Asn Leu Ile Leu Gly Asn Pro Pro Ser		
245	250	255
Lys Val Tyr Gly Asn Ile Arg Ala Val Ala Ser Arg Ser Ala Asp Arg		
260	265	270

Phe

&lt;210&gt; 890

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 890

Val Thr Ser Lys Thr Gln Val Gly Leu Phe Lys Phe Leu Lys Phe Glu
1 5 10 15
Ile Phe Tyr Leu Gln Lys Ile Val Leu Cys Phe Ile Ile Ser Gln Met
20 25 30
Ser Val Arg Phe Leu Ser Thr Asn Asp His Ala Ser Ile Phe Phe Ser
35 40 45

Phe Lys Pro Pro Asn Gln Tyr Phe Ser Phe Lys Phe  
 50 55 60

<210> 891

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 891

Ala Arg Gly Ala Val Thr Arg Phe Pro Pro Arg Ser Leu Gly Arg Cys  
 1 5 10 15

His Gly Phe Gly Val Gly Asp Arg Ala Val Thr Met Ala Arg Leu Ala  
 20 25 30

Leu Ser Pro Val Pro Ser His Trp Met Val Ala Leu Leu Leu Leu Leu  
 35 40 45

Ser Ala Ala Glu Pro Val Pro Ala Ala Arg Ser Glu Asp Arg Tyr Arg  
 50 55 60

Asn Pro Lys Gly Ser Ala Cys Ser Arg Ile Trp Gln Ser Pro Arg Phe  
 65 70 75 80

Ile Ala Arg Lys Arg Gly Phe Thr Val Lys Met His Cys Tyr Met Asn  
 85 90 95

Ser Ala Ser Gly Asn Val Ser Trp Leu Trp Lys Gln Glu Met Asp Glu  
 100 105 110

Asn Pro Gln Gln Leu Lys Leu Glu Lys Gly Arg Met Glu Glu Ser Gln  
 115 120 125

Asn Glu Ser Leu Ala Thr Leu Thr Ile Gln Gly Ile Arg Phe Glu Asp  
 130 135 140

Asn Gly Ile Tyr Phe Cys Gln Gln Lys Cys Asn Asn Thr Ser Glu Val  
 145 150 155 160

Tyr Gln Gly Cys Gly Thr Glu Leu Arg Val Met Gly Phe Ser Thr Leu  
 165 170 175

Ala Gln Leu Lys Gln Arg Asn Thr Leu Lys Asp Gly Ile Ile Met Ile

180 185 190  
Gln Thr Leu Leu Ile Ile Leu Phe Ile Ile Val Pro Ile Phe Leu Leu  
195 200 205  
Leu Asp Lys Asp Asp Ser Lys Ala Gly Met Glu Glu Asp His Thr Xaa  
210 215 220  
Glu Gly Leu Asp Ile Asp Gln Thr Ala Thr Tyr Glu Asp Ile Val Thr  
225 230 235 240  
Leu Arg Thr Gly Glu Val Lys Trp Ser Val Gly Glu His Pro Gly Gln  
245 250 255

Glu

<210> 892  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 892  
Cys His Ser Cys Tyr Gln Ala Val Pro Leu Pro Gly Val His Ile Gly  
1 5 10 15  
Leu Thr Gly Leu Ser Ile Phe Leu Phe Leu Ile Phe Glu Phe Tyr His  
20 25 30  
Leu Ala Leu Asn Cys Ser Thr Trp Ile Trp Gly Ser Ser Leu Cys Pro  
35 40 45  
Lys Asp Leu Leu  
50

<210> 893  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 893  
Gly Arg Glu Gly Arg Glu Glu Arg Glu Asp Lys Glu Ser Pro Thr Ser  
1 5 10 15  
Phe Gln Asn Val Met Arg Ile Leu Ser Thr Tyr Gly Pro Trp His Asp  
20 25 30



His Met Thr Cys Arg Ala Pro Val Ile Glu Leu Ile Phe Ile Phe Ser  
35 40 45

Leu Val  
50

<210> 894  
<211> 255  
<212> PRT  
<213> Homo sapiens

<400> 894  
Ala Pro Ser Ala Arg Asp Val Ser Arg Cys Ala His Arg Ala Arg Pro  
1 5 10 15

Gly Ala Ile Met Leu Leu Leu Pro Ser Ala Ala Asp Gly Arg Gly Thr  
20 25 30

Ala Ile Thr His Ala Leu Thr Ser Ala Ser Thr Leu Cys Gln Val Glu  
35 40 45

Pro Val Gly Arg Trp Phe Glu Ala Phe Val Lys Arg Arg Asn Arg Asn  
50 55 60

Ala Ser Ala Ser Phe Gln Glu Leu Glu Asp Lys Lys Glu Leu Ser Glu  
65 70 75 80

Glu Ser Glu Asp Glu Glu Leu Gln Leu Glu Glu Phe Pro Met Leu Lys  
85 90 95

Thr Leu Asp Pro Lys Asp Trp Lys Asn Gln Asp His Tyr Ala Val Leu  
100 105 110

Gly Leu Gly His Val Arg Tyr Lys Ala Thr Gln Arg Gln Ile Lys Ala  
115 120 125

Ala His Lys Ala Met Val Leu Lys His His Pro Asp Lys Arg Lys Ala  
130 135 140

Ala Gly Glu Pro Ile Lys Glu Gly Asp Asn Asp Tyr Phe Thr Cys Ile  
145 150 155 160

Thr Lys Ala Tyr Glu Met Leu Ser Asp Pro Val Lys Arg Arg Ala Phe  
165 170 175

Asn Ser Val Asp Pro Thr Phe Asp Asn Ser Val Pro Ser Lys Ser Glu  
180 185 190

Ala Lys Asp Asn Phe Phe Glu Val Phe Thr Pro Val Phe Glu Arg Asn

195                      200                      205  
 Ser Arg Trp Ser Asn Lys Lys Asn Val Pro Lys Leu Gly Asp Met Asn  
 210                      215                      220  
 Ser Ser Phe Glu Asp Val Asp Ile Phe Tyr Ser Phe Trp Tyr Asn Phe  
 225                      230                      235                      240  
 Asp Ser Trp Arg Glu Phe Ser Tyr Leu Asp Glu Glu Glu Lys Lys  
 245                      250                      255  
  
 <210> 895  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 895  
 Val Glu Asn Gln Asn Pro Ala Asp Pro Leu Asn Glu Glu Leu Gly Asp  
 1                      5                      10                      15  
 Glu Asp Ser Glu Lys Lys Arg Lys Gly Ala Phe Phe Ser Trp Ser Arg  
 20                      25                      30  
 Thr Arg Ser Thr Gly Arg Ser Gln Lys Lys Arg Glu His Gly Asp His  
 35                      40                      45  
 Ala Asp Asp Ala Leu His Ala Asn Gly Gly Leu Cys Arg Arg Glu Ser  
 50                      55                      60  
 Gln Gly Ser Val Ser Ser Ala Gly Ser Leu Asp Leu Ser Glu Ala Cys  
 65                      70                      75                      80  
 Arg Thr Leu Ala Pro Glu Lys Asp Lys Ala Thr Lys His Cys Cys Ile  
 85                      90                      95  
 His Leu Pro Asp Gly Thr Ser Cys Val Val Ala Val Lys Ala Gly Phe  
 100                      105                      110  
 Ser Ile Lys Asp Ile Leu Ser Gly Leu Cys Glu Arg His Gly Ile Asn  
 115                      120                      125  
 Gly Ala Ala Ala Asp Leu Phe Leu Val Gly Gly Asp Lys Pro Leu Val  
 130                      135                      140  
 Leu Ala Pro Arg Gln  
 145

&lt;210&gt; 896

&lt;211&gt; 635

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 896

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His Glu Arg Gly Gln Arg Ala His Ser Ala Asp Ala Arg Ala Ala Gly
  1              5              10              15

Ser Thr Arg Ser Thr Ala Gly Ala Gly Leu Gly Gln Arg Leu Arg Cys
      20              25              30

Cys Trp Ile Val Val Phe Ser Gly Ile Glu Asp Thr His Gln Lys Pro
      35              40              45

Lys Met Pro Lys Pro Ile Asn Val Arg Val Thr Thr Met Asp Ala Glu
      50              55              60

Leu Glu Phe Ala Ile Gln Pro Asn Thr Thr Gly Lys Gln Leu Phe Asp
      65              70              75              80

Gln Val Val Lys Thr Ile Gly Leu Arg Glu Val Trp Tyr Phe Gly Leu
      85              90              95

His Tyr Val Asp Asn Lys Gly Phe Pro Thr Trp Leu Lys Leu Asp Lys
      100             105             110

Lys Val Ser Ala Gln Glu Val Arg Lys Glu Asn Pro Leu Gln Phe Lys
      115             120             125

Phe Arg Ala Lys Phe Tyr Pro Glu Asp Val Ala Glu Glu Leu Ile Gln
      130             135             140

Asp Ile Thr Gln Lys Leu Phe Phe Leu Gln Val Lys Glu Gly Ile Leu
      145             150             155             160

Ser Asp Glu Ile Tyr Cys Pro Pro Glu Thr Ala Val Leu Leu Gly Ser
      165             170             175

Tyr Ala Val Gln Ala Lys Phe Gly Asp Tyr Asn Lys Glu Val His Lys
      180             185             190

Ser Gly Tyr Leu Ser Ser Glu Arg Leu Ile Pro Gln Arg Val Met Asp
      195             200             205

Gln His Lys Leu Thr Arg Asp Gln Trp Glu Asp Arg Ile Gln Val Trp
      210             215             220

His Ala Glu His Arg Gly Met Leu Lys Asp Asn Ala Met Leu Glu Tyr
      225             230             235             240

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Leu Lys Ile Ala Gln Asp Leu Glu Met Tyr Gly Ile Asn Tyr Phe Glu  
245 250 255

Ile Lys Asn Lys Lys Gly Thr Asp Leu Trp Leu Gly Val Asp Ala Leu  
260 265 270

Gly Leu Asn Ile Tyr Glu Lys Asp Asp Lys Leu Thr Pro Lys Ile Gly  
275 280 285

Phe Pro Trp Ser Glu Ile Arg Asn Ile Ser Phe Asn Asp Lys Lys Phe  
290 295 300

Val Ile Lys Pro Ile Asp Lys Lys Ala Pro Asp Phe Val Phe Tyr Ala  
305 310 315 320

Pro Arg Leu Arg Ile Asn Lys Arg Ile Leu Gln Leu Cys Met Gly Asn  
325 330 335

His Glu Leu Tyr Met Arg Arg Arg Lys Pro Asp Thr Ile Glu Val Gln  
340 345 350

Gln Met Lys Ala Gln Ala Arg Glu Glu Lys His Gln Lys Gln Leu Glu  
355 360 365

Arg Gln Gln Leu Glu Thr Glu Lys Lys Arg Arg Glu Thr Val Glu Arg  
370 375 380

Glu Lys Glu Gln Met Met Arg Glu Lys Glu Glu Leu Met Leu Arg Leu  
385 390 395 400

Gln Asp Tyr Glu Glu Lys Thr Lys Lys Ala Glu Arg Glu Leu Ser Glu  
405 410 415

Gln Ile Gln Arg Ala Leu Gln Leu Glu Glu Glu Arg Lys Arg Ala Gln  
420 425 430

Glu Glu Ala Glu Arg Leu Glu Ala Asp Arg Met Ala Ala Leu Arg Ala  
435 440 445

Lys Glu Glu Leu Glu Arg Gln Ala Val Asp Gln Ile Lys Ser Gln Glu  
450 455 460

Gln Leu Ala Ala Glu Leu Ala Glu Tyr Thr Ala Lys Ile Ala Leu Leu  
465 470 475 480

Glu Glu Ala Arg Arg Arg Lys Glu Asp Glu Val Glu Glu Trp Gln His  
485 490 495

Arg Ala Lys Glu Ala Gln Asp Asp Leu Val Lys Thr Lys Glu Glu Leu  
500 505 510

His Leu Val Met Thr Ala Pro Pro Pro Pro Pro Pro Pro Val Tyr Glu  
515 520 525

Pro Val Ser Tyr His Val Gln Glu Ser Leu Gln Asp Glu Gly Ala Glu  
530 535 540

Pro Thr Gly Tyr Ser Ala Glu Leu Ser Ser Glu Gly Ile Arg Asp Asp  
545 550 555 560

Arg Asn Glu Glu Lys Arg Ile Thr Glu Ala Glu Lys Asn Glu Arg Val  
565 570 575

Gln Arg Gln Leu Leu Thr Leu Ser Ser Glu Leu Ser Gln Ala Arg Asp  
580 585 590

Glu Asn Lys Arg Thr His Asn Asp Ile Ile His Asn Glu Asn Met Arg  
595 600 605

Gln Gly Arg Asp Lys Tyr Lys Thr Leu Arg Gln Ile Arg Gln Gly Asn  
610 615 620

Thr Lys Gln Arg Ile Asp Glu Phe Glu Ala Leu  
625 630 635

<210> 897

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 897

Phe Val Phe Leu Gly Tyr Glu Glu Ile Ile Ile Xaa Leu Val Ser Ile  
1 5 10 15

Phe Ile Asn Pro Xaa Ile Leu Tyr Leu Xaa Lys Ser Xaa Xaa Gly Gly  
20 25 30

Gly Arg Pro Cys Xaa Asp Leu Pro Ile  
35 40

&lt;210&gt; 898

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 898

Ser Leu Ala Gly Arg Ser Arg Trp Met Glu Ala Asn Gln His Ser Leu  
1 5 10 15

Asn Ile Leu Gly Gln Lys Val Ser Met His Tyr Ser Asp Pro Lys Pro  
20 25 30

Lys Ile Asn Glu Asp Trp Leu Cys Asn Lys Cys Gly Val Gln Asn Phe  
35 40 45

Lys Arg Arg Glu Lys Cys Phe Lys Cys Gly Val Pro Lys Ser Glu Ala  
50 55 60

Glu Gln Lys Leu Pro Leu Gly Thr Arg Leu Asp Gln Gln Thr Leu Pro

65                                      70                                      75                                      80  
Leu Gly Xaa Arg Glu Leu Ser Gln Gly Leu Leu Xaa Leu Pro Gln Pro  
   85                                      90                                      95  
Tyr Gln Ala Gln Gly Val Leu Ala Ser Gln Ala Leu Ser Gln Gly Ser  
   100                                      105                                      110  
Glu Pro Ser Ser Glu Asn Ala Asn Asp Thr Ile Ile Leu Arg Asn Leu  
   115                                      120                                      125

<210> 899  
<211> 92  
<212> PRT  
<213> Homo sapiens

<400> 899  
Ile Trp Gln Phe Phe Ala Glu Val Ile Met Ser Phe Phe Gln Leu Leu  
1                                      5                                      10                                      15  
Met Lys Arg Lys Glu Leu Ile Pro Leu Val Val Phe Met Thr Val Ala  
   20                                      25                                      30  
Ala Gly Gly Ala Ser Ser Phe Ala Val Tyr Ser Leu Trp Lys Thr Asp  
   35                                      40                                      45  
Val Ile Leu Asp Arg Lys Lys Asn Pro Glu Pro Trp Glu Thr Val Asp  
   50                                      55                                      60  
Pro Thr Val Pro Gln Lys Leu Ile Thr Ile Asn Gln Gln Trp Lys Pro  
65                                      70                                      75                                      80  
Ile Glu Glu Leu Gln Asn Val Gln Arg Val Thr Lys  
   85                                      90

<210> 900  
<211> 73  
<212> PRT  
<213> Homo sapiens

<400> 900  
Gly Gly Trp Phe Tyr Pro Phe Cys Leu Leu Phe Gly Thr Gln Leu Val  
1                                      5                                      10                                      15

Phe Phe Gly Leu Leu Ser Ser Gly Ser Arg Ala Val Leu Ser Asn Thr  
20 25 30

Val Thr Thr Cys Gly Cys Leu Lys Leu Ser Gln Leu Lys Ser His Lys  
35 40 45

Ile Lys Asn Ser Phe Leu Ser Cys Thr Asn His Val Ser Arg Gly Val  
50 55 60

Thr Val Cys Ser Ser Trp Leu Leu Tyr  
65 70

<210> 901

<211> 120

<212> PRT

<213> Homo sapiens

<400> 901

Gly Pro Ala Leu Lys Met Gln Ala Gln Ala Pro Val Val Val Val Thr  
1 5 10 15

Gln Pro Gly Val Gly Pro Gly Pro Ala Pro Gln Asn Ser Asn Trp Gln  
20 25 30

Thr Gly Met Cys Asp Cys Phe Ser Asp Cys Gly Val Cys Leu Cys Gly  
35 40 45

Thr Phe Cys Phe Pro Cys Leu Gly Cys Gln Val Ala Ala Asp Met Asn  
50 55 60

Glu Cys Cys Leu Cys Gly Thr Ser Val Ala Met Arg Thr Leu Tyr Arg  
65 70 75 80

Thr Arg Tyr Gly Ile Pro Gly Ser Ile Cys Asp Asp Tyr Met Ala Thr  
85 90 95

Leu Cys Cys Pro His Cys Thr Leu Cys Gln Ile Lys Arg Asp Ile Asn  
100 105 110

Arg Arg Arg Ala Met Arg Thr Phe  
115 120

<210> 902

<211> 163

<212> PRT

<213> Homo sapiens



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 902

Xaa Glu Pro Lys Pro Ser Val Glu Pro Val Lys Ser Ile Ser Ser Met  
1 5 10 15

Glu Leu Lys Thr Glu Pro Phe Asp Asp Phe Leu Phe Pro Ala Ser Ser  
20 25 30

Arg Pro Ser Gly Ser Glu Thr Ala Arg Ser Val Pro Asp Met Asp Leu  
35 40 45

Ser Gly Ser Phe Tyr Ala Ala Asp Trp Glu Pro Leu His Ser Gly Ser  
50 55 60

Leu Gly Met Gly Pro Met Ala Gln Ser Trp Ser Pro Cys Ala Leu Arg  
65 70 75 80

Trp Ser Pro Val Leu Pro Ala Ala Leu Leu Thr Arg Leu Pro Ser Ser  
85 90 95

Ser Pro Thr Pro Arg Leu Thr Pro Ser Pro Ala Val Gln Leu Pro Thr  
100 105 110

Ala Arg Ala Ala Ala Ala Met Ser Leu Pro Leu Thr Arg Ser Ala His  
115 120 125

Pro Arg Cys Trp Pro Cys Glu Gly Ala Gly Lys Gly Arg Gln Pro Ala  
130 135 140

Pro Thr Ser Ala Thr Ala Arg Ala Gly Ala Leu Gln Arg Gly Glu Thr  
145 150 155 160

His Leu Pro

&lt;210&gt; 903

&lt;211&gt; 478

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (451)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 903

Ala Asp Thr Lys Pro Glu Arg Gly Val Ser Ser Ala Val Phe Ala Ser  
 1 5 10 15

Gly Ser Glu Xaa Arg Arg Leu Xaa Cys Val Leu Leu Ser Ser Ser Glu  
 20 25 30

Thr Arg Leu Leu Ser Gly Thr Leu Leu Trp Ile Pro Arg Ala Tyr Ser  
 35 40 45

Thr Arg Ser Lys Met Ala Glu Leu Asn Thr His Val Asn Val Lys Glu  
 50 55 60

Lys Ile Tyr Ala Val Arg Ser Val Val Pro Asn Lys Ser Asn Asn Glu  
 65 70 75 80

Ile Val Leu Val Leu Gln Gln Phe Asp Phe Asn Val Asp Lys Ala Val  
 85 90 95

Gln Ala Phe Val Asp Gly Ser Ala Ile Gln Val Leu Lys Glu Trp Asn  
 100 105 110

Met Thr Gly Lys Lys Lys Asn Asn Lys Arg Lys Arg Ser Lys Ser Lys  
 115 120 125

Gln His Gln Gly Asn Lys Asp Ala Lys Asp Lys Val Glu Arg Pro Glu  
 130 135 140

Ala Gly Pro Leu Gln Pro Gln Pro Pro Gln Ile Gln Asn Gly Pro Met  
 145 150 155 160

Asn Gly Cys Glu Lys Asp Ser Ser Ser Thr Asp Ser Ala Asn Glu Lys  
 165 170 175

Pro Ala Leu Ile Pro Arg Glu Lys Lys Ile Ser Ile Leu Glu Glu Pro  
 180 185 190

Ser Lys Ala Leu Arg Gly Val Thr Gly Pro Asn Ile Glu Lys Ser Val  
 195 200 205

Lys Asp Leu Gln Arg Cys Thr Val Ser Leu Thr Arg Tyr Arg Val Met

210	215	220
Ile Lys Glu Glu Val Asp Ser Ser Val Lys Lys Ile Lys Ala Ala Phe 225 230 235 240		
Ala Glu Leu His Asn Cys Ile Ile Asp Lys Glu Val Ser Leu Met Ala 245 250 255		
Glu Met Asp Lys Val Lys Glu Glu Ala Met Glu Ile Leu Thr Ala Arg 260 265 270		
Gln Lys Lys Ala Glu Glu Leu Lys Arg Leu Thr Asp Leu Ala Ser Gln 275 280 285		
Met Ala Glu Met Gln Leu Ala Glu Leu Arg Ala Glu Ile Lys His Phe 290 295 300		
Val Ser Glu Arg Lys Tyr Asp Glu Glu Leu Gly Lys Ala Ala Arg Phe 305 310 315 320		
Ser Cys Asp Ile Glu Gln Leu Lys Ala Gln Ile Met Leu Cys Gly Glu 325 330 335		
Ile Thr His Pro Lys Asn Asn Tyr Ser Ser Arg Thr Pro Cys Ser Ser 340 345 350		
Leu Leu Pro Leu Leu Asn Ala His Ala Ala Thr Ser Gly Lys Gln Ser 355 360 365		
Asn Phe Ser Arg Lys Ser Ser Thr His Asn Lys Pro Ser Glu Gly Lys 370 375 380		
Ala Ala Asn Pro Lys Met Val Ser Ser Leu Pro Ser Thr Ala Asp Pro 385 390 395 400		
Ser His Gln Thr Met Pro Ala Asn Lys Gln Asn Gly Ser Ser Asn Gln 405 410 415		
Arg Arg Arg Phe Asn Pro Gln Tyr His Asn Asn Arg Leu Asn Gly Pro 420 425 430		
Ala Lys Ser Gln Gly Ser Gly Asn Glu Ala Glu Pro Leu Gly Lys Gly 435 440 445		
Asn Ser Xaa His Glu His Arg Arg Gln Pro His Asn Gly Phe Arg Pro 450 455 460		
Lys Asn Lys Gly Gly Ala Lys Ile Lys Arg Leu Pro Trp Gly 465 470 475		

<210> 904  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 904  
 Ala Phe His Phe Gly Ser Val Ala Lys Ala Thr Thr Thr Ser Val Gly  
     1                    5                    10                    15  
 Thr Val Gly Tyr Tyr Gln Phe Met Asp Arg Leu Leu Ser Gly Met Val  
                     20                    25                    30  
 Thr Ala Asn Thr Ile Val Arg Lys Pro Lys Arg Ser Leu Val Arg Val  
                     35                    40                    45  
 Glu Ser Val Thr Pro Leu Pro Thr Thr Gly Cys Cys Leu Leu Ser Leu  
                     50                    55                    60  
 Arg Arg Leu Arg Gln Asn Leu Leu Gln Arg Thr Arg Arg Val Val Tyr  
     65                    70                    75                    80  
 Gln Arg Cys Leu Thr Thr Leu Arg  
                     85

<210> 905  
 <211> 508  
 <212> PRT  
 <213> Homo sapiens

<400> 905  
 Phe Arg Ile Val Leu Pro Gly Trp Gln Gln Gly Pro Ser Gly Thr Met  
     1                    5                    10                    15  
 Ser Ala Leu Gly Val Thr Val Ala Leu Leu Val Trp Ala Ala Phe Leu  
                     20                    25                    30  
 Leu Leu Val Ser Met Trp Arg Gln Val His Ser Ser Trp Asn Leu Pro  
                     35                    40                    45  
 Pro Gly Pro Phe Pro Leu Pro Ile Ile Gly Asn Leu Phe Gln Leu Glu  
                     50                    55                    60  
 Leu Lys Asn Ile Pro Lys Ser Phe Thr Arg Leu Ala Gln Arg Phe Gly  
     65                    70                    75                    80  
 Pro Val Phe Thr Leu Tyr Val Gly Ser Gln Arg Met Val Val Met His  
                     85                    90                    95

Gly Tyr Lys Ala Val Lys Glu Ala Leu Leu Asp Tyr Lys Asp Glu Phe  
100 105 110

Ser Gly Arg Gly Asp Leu Pro Ala Phe His Ala His Arg Asp Arg Gly  
115 120 125

Ile Ile Phe Asn Asn Gly Pro Thr Trp Lys Asp Ile Arg Arg Phe Ser  
130 135 140

Leu Thr Thr Leu Arg Asn Tyr Gly Met Gly Lys Gln Gly Asn Glu Ser  
145 150 155 160

Arg Ile Gln Arg Glu Ala His Phe Leu Leu Glu Ala Leu Arg Lys Thr  
165 170 175

Gln Gly Gln Pro Phe Asp Pro Thr Phe Leu Ile Gly Cys Ala Pro Cys  
180 185 190

Asn Val Ile Ala Asp Ile Leu Phe Arg Lys His Phe Asp Tyr Asn Asp  
195 200 205

Glu Lys Phe Leu Arg Leu Met Tyr Leu Phe Asn Glu Asn Phe His Leu  
210 215 220

Leu Ser Thr Pro Trp Leu Gln Leu Tyr Asn Asn Phe Pro Ser Phe Leu  
225 230 235 240

His Tyr Leu Pro Gly Ser His Arg Lys Val Ile Lys Asn Val Ala Glu  
245 250 255

Val Lys Glu Tyr Val Ser Glu Arg Val Lys Glu His His Gln Ser Leu  
260 265 270

Asp Pro Asn Cys Pro Arg Asp Leu Thr Asp Cys Leu Leu Val Glu Met  
275 280 285

Glu Lys Glu Lys His Ser Ala Glu Arg Leu Tyr Thr Met Asp Gly Ile  
290 295 300

Thr Val Thr Val Ala Asp Leu Phe Phe Ala Gly Thr Glu Thr Thr Ser  
305 310 315 320

Thr Thr Leu Arg Tyr Gly Leu Leu Ile Leu Met Lys Tyr Pro Glu Ile  
325 330 335

Glu Glu Lys Leu His Glu Glu Ile Asp Arg Val Ile Gly Pro Ser Arg  
340 345 350

Ile Pro Ala Ile Lys Asp Arg Gln Glu Met Pro Tyr Met Asp Ala Val  
355 360 365

Val His Glu Ile Gln Arg Phe Ile Thr Leu Val Pro Ser Asn Leu Pro  
 370 375 380

His Glu Ala Thr Arg Asp Thr Ile Phe Arg Gly Tyr Leu Ile Pro Lys  
 385 390 395 400

Gly Thr Val Val Val Pro Thr Leu Asp Ser Val Leu Tyr Asp Asn Gln  
 405 410 415

Glu Phe Pro Asp Pro Glu Lys Phe Lys Pro Glu His Phe Leu Asn Glu  
 420 425 430

Asn Gly Lys Phe Lys Tyr Ser Asp Tyr Phe Lys Pro Phe Ser Thr Gly  
 435 440 445

Lys Arg Val Cys Ala Gly Glu Gly Leu Ala Arg Met Glu Leu Phe Leu  
 450 455 460

Leu Leu Cys Ala Ile Leu Gln His Phe Asn Leu Lys Pro Leu Val Asp  
 465 470 475 480

Pro Lys Asp Ile Asp Leu Ser Pro Ile His Ile Gly Phe Gly Cys Ile  
 485 490 495

Pro Pro Arg Tyr Lys Leu Cys Val Ile Pro Arg Ser  
 500 505

<210> 906

<211> 290

<212> PRT

<213> Homo sapiens

<400> 906

Leu Gly Pro Arg Pro Leu Ala Leu Glu Arg Gly Leu Arg Gly Thr His  
 1 5 10 15

Met Glu Asn Val Tyr Asp Phe Tyr Lys Pro Asn Leu Ala Ser Glu Tyr  
 20 25 30

Pro Ile Val Asp Gly Lys Leu Ser Ile Gln Cys Tyr Leu Arg Ala Leu  
 35 40 45

Asp Arg Cys Tyr Thr Ser Tyr Arg Lys Lys Ile Gln Asn Gln Trp Lys  
 50 55 60

Gln Ala Gly Ser Asp Arg Pro Phe Thr Leu Asp Asp Leu Gln Tyr Met  
 65 70 75 80

Ile Phe His Thr Pro Phe Cys Lys Met Val Gln Lys Ser Leu Ala Arg

85	90	95
Leu Met Phe Asn Asp Phe Leu Ser Ala Ser Ser Asp Thr Gln Thr Ser 100	105	110
Leu Tyr Lys Gly Leu Glu Ala Phe Gly Gly Leu Lys Leu Glu Asp Thr 115	120	125
Tyr Thr Asn Lys Asp Leu Asp Lys Ala Leu Leu Lys Ala Ser Gln Asp 130	135	140
Met Phe Asp Lys Lys Thr Lys Ala Ser Leu Tyr Leu Ser Thr His Asn 145	150	155
Gly Asn Met Tyr Thr Ser Ser Leu Tyr Gly Cys Leu Ala Ser Leu Leu 165	170	175
Ser His His Ser Ala Gln Glu Leu Ala Gly Ser Arg Ile Gly Ala Phe 180	185	190
Ser Tyr Gly Ser Gly Leu Ala Ala Ser Phe Phe Ser Phe Arg Val Ser 195	200	205
Gln Asp Ala Ala Pro Gly Ser Pro Leu Asp Lys Leu Val Ser Ser Thr 210	215	220
Ser Asp Leu Pro Lys Arg Leu Ala Ser Arg Lys Cys Val Ser Pro Glu 225	230	235
Glu Phe Thr Glu Ile Met Asn Gln Arg Glu Gln Phe Tyr His Lys Val 245	250	255
Asn Phe Ser Pro Pro Gly Asp Thr Asn Ser Leu Phe Pro Gly Thr Trp 260	265	270
Tyr Leu Glu Arg Val Asp Glu Gln His Arg Arg Lys Tyr Ala Arg Arg 275	280	285
Pro Val 290		

<210> 907  
 <211> 242  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 907

Leu Val Pro Asn Ser Ala Arg Val Gly Thr Arg Ser Lys Gly Val Cys  
1 5 10 15

Val His Gly Asn Ala Glu Tyr Gln Pro Gly Ser Pro Val Tyr Ser Ser  
20 25 30

Lys Cys Gln Asp Cys Val Cys Thr Asp Lys Val Asp Asn Asn Thr Leu  
35 40 45

Leu Asn Val Ile Ala Cys Thr His Val Pro Cys Asn Thr Ser Cys Ser  
50 55 60

Pro Gly Phe Glu Leu Met Glu Ala Pro Gly Glu Cys Cys Lys Lys Cys  
65 70 75 80

Glu Gln Thr His Cys Ile Ile Lys Arg Pro Asp Asn Gln His Val Ile  
85 90 95

Leu Lys Pro Gly Asp Phe Lys Ser Asp Pro Lys Asn Asn Cys Thr Phe  
100 105 110

Phe Ser Cys Val Lys Ile His Asn Gln Leu Ile Ser Ser Val Ser Asn  
115 120 125

Ile Thr Cys Pro Asn Phe Asp Ala Ser Ile Cys Ile Pro Gly Ser Ile  
130 135 140

Thr Phe Met Pro Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu  
145 150 155 160

Thr Arg Val Pro Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr  
165 170 175



Ala Gly Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys  
 180 185 190

Gly Thr Phe Val Met Xaa Ser Ala Lys Ala Arg Pro Trp Thr Thr Ala  
 195 200 205

Cys Ser Cys Cys Lys Glu Xaa Lys Thr Ser Gln Arg Glu Xaa Val Leu  
 210 215 220

Thr Ala Gln Trp Arg Ser Leu Thr His Thr Tyr Thr Thr Ser Arg Leu  
 225 230 235 240

Pro Xaa

<210> 908

<211> 119

<212> PRT

<213> Homo sapiens

<400> 908

Leu Gly Leu Ala Pro Ala Leu Gly Pro Ala Ser Arg Arg Ser Arg Glu  
 1 5 10 15

Met Ser Asp Cys Tyr Thr Glu Leu Glu Lys Ala Val Ile Val Leu Val  
 20 25 30

Glu Asn Phe Tyr Lys Tyr Val Ser Lys Tyr Ser Leu Val Lys Asn Lys  
 35 40 45

Ile Ser Lys Ser Ser Phe Arg Glu Met Leu Gln Lys Glu Leu Asn His  
 50 55 60

Met Leu Ser Asp Thr Gly Asn Arg Lys Ala Ala Asp Lys Leu Ile Gln  
 65 70 75 80

Asn Leu Asp Ala Asn His Asp Gly Arg Ile Ser Phe Asp Glu Tyr Trp  
 85 90 95

Thr Leu Ile Gly Gly Ile Thr Gly Pro Ile Ala Lys Leu Ile His Glu  
 100 105 110

Gln Glu Gln Gln Ser Ser Ser  
 115

<210> 909

<211> 171



<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 910

Gly Ser Pro Thr Glu Thr Leu Leu Arg Leu Leu Leu Pro Leu Asp Ser  
1 5 10 15

Gln Val Arg Pro Ser Ser Gln Arg Ser Ala Xaa Ala Val Gly Arg Pro  
20 25 30

Arg Arg Gly Arg Ser Glu Gly Leu Thr Lys Pro Ser Asn Arg  
35 40 45

<210> 911

<211> 1242

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (1013)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (1034)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 911

Ala Pro His Leu Thr Leu Arg Pro Cys Gly Cys Cys Ser Gly Ala Gly  
1 5 10 15

Leu Leu Pro Gly Gln Gly Pro Gly Ile Met Tyr Ile Lys Gln Val Ile  
20 25 30

Ile Gln Gly Phe Arg Ser Tyr Arg Asp Gln Thr Ile Val Asp Pro Phe  
35 40 45

Ser Ser Lys His Asn Val Ile Val Gly Arg Asn Gly Ser Gly Lys Ser  
50 55 60

Asn Phe Phe Tyr Ala Ile Gln Phe Val Leu Ser Asp Glu Phe Ser His  
65 70 75 80



Lys Glu Arg Gln Lys Leu Leu Glu Lys Ile Glu Glu Lys Gln Lys Glu  
355 360 365

Leu Ala Glu Thr Glu Pro Lys Phe Asn Ser Val Lys Glu Lys Glu Glu  
370 375 380

Arg Gly Ile Ala Arg Leu Ala Gln Ala Thr Gln Glu Arg Thr Asp Leu  
385 390 395 400

Tyr Ala Lys Gln Gly Arg Gly Ser Gln Phe Thr Ser Lys Glu Glu Arg  
405 410 415

Asp Lys Trp Ile Lys Lys Glu Leu Lys Ser Leu Asp Gln Ala Ile Asn  
420 425 430

Asp Lys Lys Arg Gln Ile Ala Ala Ile His Lys Asp Leu Glu Asp Thr  
435 440 445

Glu Ala Asn Lys Glu Lys Asn Leu Glu Gln Tyr Asn Lys Leu Asp Gln  
450 455 460

Asp Leu Asn Glu Val Lys Ala Arg Val Glu Glu Leu Asp Arg Lys Tyr  
465 470 475 480

Tyr Glu Val Lys Asn Lys Lys Asp Glu Leu Gln Ser Glu Arg Asn Tyr  
485 490 495

Leu Trp Arg Glu Glu Asn Ala Glu Gln Gln Ala Leu Ala Ala Lys Arg  
500 505 510

Glu Asp Leu Glu Lys Lys Gln Gln Leu Leu Arg Ala Ala Thr Gly Lys  
515 520 525

Ala Ile Leu Asn Gly Ile Asp Ser Ile Asn Lys Val Leu Asp His Phe  
530 535 540

Arg Arg Lys Gly Ile Asn Gln His Val Gln Asn Gly Tyr His Gly Ile  
545 550 555 560

Val Met Asn Asn Phe Glu Cys Glu Pro Ala Phe Tyr Thr Cys Val Glu  
565 570 575

Val Thr Ala Gly Asn Arg Leu Phe Tyr His Ile Val Asp Ser Asp Glu  
580 585 590

Val Ser Thr Lys Ile Leu Met Glu Phe Asn Lys Met Asn Leu Pro Gly  
595 600 605

Glu Val Thr Phe Leu Pro Leu Asn Lys Leu Asp Val Arg Asp Thr Ala  
610 615 620

Tyr Pro Glu Thr Asn Asp Ala Ile Pro Met Ile Ser Lys Leu Arg Tyr  
625 630 635 640

Asn Pro Arg Phe Asp Lys Ala Phe Lys His Val Phe Gly Lys Thr Leu  
645 650 655

Ile Cys Arg Ser Met Glu Val Ser Thr Gln Leu Ala Arg Ala Phe Thr  
660 665 670

Met Asp Cys Ile Thr Leu Glu Gly Asp Gln Val Ser His Arg Gly Ala  
675 680 685

Leu Thr Gly Gly Tyr Tyr Asp Thr Arg Lys Ser Arg Leu Glu Leu Gln  
690 695 700

Lys Asp Val Arg Lys Ala Glu Glu Glu Leu Gly Glu Leu Glu Ala Lys  
705 710 715 720

Leu Asn Glu Asn Leu Arg Arg Asn Ile Glu Arg Ile Asn Asn Glu Ile  
725 730 735

Asp Gln Leu Met Asn Gln Met Gln Gln Ile Glu Thr Gln Gln Arg Lys  
740 745 750

Phe Lys Ala Ser Arg Asp Ser Ile Leu Ser Glu Met Lys Met Leu Lys  
755 760 765

Glu Lys Arg Gln Gln Ser Glu Lys Thr Phe Met Pro Lys Gln Arg Ser  
770 775 780

Leu Gln Ser Leu Glu Ala Ser Leu His Ala Met Glu Ser Thr Arg Glu  
785 790 795 800

Ser Leu Lys Ala Glu Leu Gly Thr Asp Leu Leu Ser Gln Leu Ser Leu  
805 810 815

Glu Asp Gln Lys Arg Val Asp Ala Leu Asn Asp Glu Ile Arg Gln Leu  
820 825 830

Gln Gln Glu Asn Arg Gln Leu Leu Asn Glu Arg Ile Lys Leu Glu Gly  
835 840 845

Ile Ile Thr Arg Val Glu Thr Tyr Leu Asn Glu Asn Leu Arg Lys Arg  
850 855 860

Leu Asp Gln Val Glu Gln Glu Leu Asn Glu Leu Arg Glu Thr Glu Gly  
865 870 875 880

Gly Thr Val Leu Thr Ala Thr Thr Ser Glu Leu Glu Ala Ile Asn Lys  
885 890 895

Arg Val Lys Asp Thr Met Ala Arg Ser Glu Asp Leu Asp Asn Ser Ile  
900 905 910

Asp Lys Thr Glu Ala Gly Ile Lys Glu Leu Gln Lys Ser Met Glu Arg  
915 920 925

Trp Lys Asn Met Glu Lys Glu His Met Asp Ala Ile Asn His Asp Thr  
930 935 940

Lys Glu Leu Glu Lys Met Thr Asn Arg Gln Gly Met Leu Leu Lys Lys  
945 950 955 960

Lys Glu Glu Cys Met Lys Lys Ile Arg Glu Leu Gly Ser Leu Pro Gln  
965 970 975

Glu Ala Phe Glu Lys Tyr Gln Thr Leu Ser Leu Lys Gln Leu Phe Arg  
980 985 990

Lys Leu Glu Gln Cys Asn Thr Glu Leu Lys Lys Tyr Ser His Val Asn  
995 1000 1005

Lys Lys Ala Leu Xaa Gln Phe Val Asn Phe Ser Glu Gln Lys Glu Lys  
1010 1015 1020

Leu Ile Lys Arg Gln Glu Glu Leu Asp Xaa Gly Tyr Lys Ser Ile Met  
1025 1030 1035 1040

Glu Leu Met Asn Val Leu Glu Leu Arg Lys Tyr Glu Ala Ile Gln Leu  
1045 1050 1055

Thr Phe Lys Gln Val Ser Lys Asn Phe Ser Glu Val Phe Gln Lys Leu  
1060 1065 1070

Val Pro Gly Gly Lys Ala Thr Leu Val Met Lys Lys Gly Asp Val Glu  
1075 1080 1085

Gly Ser Gln Ser Gln Asp Glu Gly Glu Gly Ser Gly Glu Ser Glu Arg  
1090 1095 1100

Gly Ser Gly Ser Gln Ser Ser Val Pro Ser Val Asp Gln Phe Thr Gly  
1105 1110 1115 1120

Val Gly Ile Arg Val Ser Phe Thr Gly Lys Gln Gly Glu Met Arg Glu  
1125 1130 1135

Met Gln Gln Leu Ser Gly Gly Gln Lys Ser Leu Val Ala Leu Ala Leu  
1140 1145 1150

Ile Phe Ala Ile Gln Lys Cys Asp Pro Ala Pro Phe Tyr Leu Phe Asp  
1155 1160 1165

Glu Ile Asp Gln Ala Leu Asp Ala Gln His Arg Lys Ala Val Ser Asp  
1170 1175 1180

Met Ile Met Glu Leu Ala Val His Ala Gln Phe Ile Thr Thr Thr Phe  
1185 1190 1195 1200

Arg Pro Glu Leu Leu Glu Ser Ala Asp Lys Phe Tyr Gly Val Lys Phe  
1205 1210 1215

Arg Asn Lys Val Ser His Ile Asp Val Ile Thr Ala Glu Met Ala Lys  
1220 1225 1230

Asp Phe Val Glu Asp Asp Thr Thr His Gly  
1235 1240

<210> 912

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 912

Glu Glu Lys Thr Glu Pro Pro Leu Ser Phe Gly Arg Gly Trp Gln Thr  
1 5 10 15

Val Lys Glu Met Ser Val Leu Arg His Val Gly Ile Gly Ser Asp Ala  
20 25 30

Pro Pro Met Glu Arg Phe Val Asn Thr Lys Thr Trp Lys Val Arg Gly  
35 40 45

Leu Ser Thr Lys Arg His Gly Arg Leu Gly Leu Ser Thr Gln Arg His  
50 55 60

Gly Arg Leu Glu Val Cys Gln His Lys Asp Thr Gly Arg Met Gly Cys





Lys Arg Arg Gln Lys Ile Glu Met Trp Asp Ser Met Gln Glu Gly Lys  
 130 135 140

Ser Tyr Lys Gly Asn Ala Lys Lys Pro Gln Glu Asp Ser Pro Gly  
 145 150 155 160

Pro Ser Thr Ser Ser Val Leu Lys Arg Lys Ser Asp Arg Lys Pro Leu  
 165 170 175

Arg Gly Gly Gly Tyr Asn Pro Leu Ser Gly Glu Gly Gly Gly Ala Cys  
 180 185 190

Ser Trp Arg Pro Gly Arg Arg Gly Pro Ser Ser Gly Gly  
 195 200 205

<210> 914  
 <211> 198  
 <212> PRT  
 <213> Homo sapiens

<400> 914  
 Ile Leu Gln Val Pro Val Arg Asn Ser Arg Val Tyr Pro Arg Val Arg  
 1 5 10 15

Val Arg Asn Val Pro Trp Glu Phe Gly Asp Val Ile Pro Asp Tyr Val  
 20 25 30

Leu Gly Gln Ser Thr Cys Ala Leu Phe Leu Ser Leu Arg Tyr His Asn  
 35 40 45

Leu His Pro Asp Tyr Ile His Gly Arg Leu Gln Ser Leu Gly Lys Asn  
 50 55 60

Phe Ala Leu Arg Val Leu Leu Val Gln Val Asp Val Lys Asp Pro Gln  
 65 70 75 80

Gln Ala Leu Lys Glu Leu Ala Lys Met Cys Ile Leu Ala Asp Cys Thr  
 85 90 95

Leu Ile Leu Ala Trp Ser Pro Glu Glu Ala Gly Arg Tyr Leu Glu Thr  
 100 105 110

Tyr Lys Ala Tyr Glu Gln Lys Pro Ala Asp Leu Leu Met Glu Lys Leu  
 115 120 125

Glu Gln Asp Phe Val Ser Arg Val Thr Glu Cys Leu Thr Thr Val Lys  
 130 135 140

Ser Val Asn Lys Thr Asp Ser Gln Thr Leu Leu Thr Thr Phe Gly Ser  
 145 150 155 160

Leu Glu Gln Leu Ile Ala Ala Ser Arg Glu Asp Leu Ala Leu Cys Pro  
 165 170 175

Gly Leu Gly Pro Gln Lys Ala Arg Arg Leu Phe Asp Val Leu His Glu  
 180 185 190

Pro Phe Leu Lys Val Pro  
 195

<210> 915

<211> 300

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 915

Gly Thr Val Asp Ile Glu Ser Leu Thr Gly Tyr Arg Thr Tyr Arg Cys  
 1 5 10 15

Ala His Pro Leu Ala Thr Leu Phe Lys Ile Leu Ala Ser Phe Tyr Ile  
 20 25 30

Ser Leu Val Ile Phe Tyr Gly Leu Ile Cys Met Tyr Thr Leu Trp Trp  
 35 40 45

Met Leu Arg Arg Ser Leu Lys Lys Tyr Ser Phe Glu Ser Ile Arg Glu  
 50 55 60

Glu Ser Ser Tyr Ser Xaa Ile Pro Asp Val Lys Asn Asp Phe Ala Phe  
 65 70 75 80

Met Leu His Leu Ile Asp Gln Tyr Asp Pro Leu Tyr Ser Lys Arg Phe  
 85 90 95

Ala Val Phe Leu Ser Glu Val Ser Glu Asn Lys Leu Arg Gln Leu Asn  
 100 105 110

Leu Asn Asn Glu Trp Thr Leu Asp Lys Leu Arg Gln Arg Leu Thr Lys  
 115 120 125

Asn Ala Gln Asp Lys Leu Glu Leu His Leu Phe Met Leu Ser Gly Ile  
 130 135 140

Pro Asp Thr Val Phe Asp Leu Val Glu Leu Glu Val Leu Lys Leu Glu  
145 150 155 160

Leu Ile Pro Asp Val Thr Ile Pro Pro Ser Ile Ala Gln Leu Thr Gly  
165 170 175

Leu Lys Glu Leu Trp Leu Tyr His Thr Ala Ala Lys Ile Glu Ala Pro  
180 185 190

Ala Leu Ala Phe Leu Arg Glu Asn Leu Arg Ala Leu His Ile Lys Phe  
195 200 205

Thr Asp Ile Lys Glu Ile Pro Leu Trp Ile Tyr Ser Leu Lys Thr Leu  
210 215 220

Glu Glu Leu His Leu Thr Gly Asn Leu Ser Ala Glu Asn Asn Arg Tyr  
225 230 235 240

Ile Val Ile Asp Gly Leu Arg Glu Leu Lys Arg Leu Lys Val Leu Arg  
245 250 255

Leu Lys Ser Asn Leu Ser Lys Leu Pro Gln Val Val Thr Asp Val Gly  
260 265 270

Val His Leu Gln Lys Leu Ser Ile Asn Asn Glu Gly Thr Lys Leu Ile  
275 280 285

Val Leu Asn Ser Leu Lys Lys Met Ala Lys Pro Asp  
290 295 300

<210> 916

<211> 157

<212> PRT

<213> Homo sapiens

<400> 916

Gln Val Ala Met Gly Ser Leu Ser Gly Leu Arg Leu Ala Ala Gly Ser  
1 5 10 15

Cys Phe Arg Leu Cys Glu Arg Asp Val Ser Ser Ser Leu Arg Leu Thr  
20 25 30

Arg Ser Ser Asp Leu Lys Arg Ile Asn Gly Phe Cys Thr Lys Pro Gln  
35 40 45

Glu Ser Pro Gly Ala Pro Ser Arg Thr Tyr Asn Arg Val Pro Leu His  
50 55 60

Lys Pro Thr Asp Trp Gln Lys Lys Ile Leu Ile Trp Ser Gly Arg Phe  
65 70 75 80

Lys Lys Glu Asp Glu Ile Pro Glu Thr Val Ser Leu Glu Met Leu Asp  
85 90 95

Ala Ala Lys Asn Lys Met Arg Val Lys Ile Ser Tyr Leu Met Ile Ala  
100 105 110

Leu Thr Val Val Gly Cys Ile Phe Met Val Ile Glu Gly Lys Lys Ala  
115 120 125

Ala Gln Arg His Glu Thr Leu Thr Ser Leu Asn Leu Glu Lys Lys Ala  
130 135 140

Arg Leu Lys Glu Glu Ala Ala Met Lys Ala Lys Thr Glu  
145 150 155

<210> 917  
<211> 77  
<212> PRT  
<213> Homo sapiens

<400> 917  
Ile Lys Val Met Asn Lys Thr Phe His Pro Leu Lys His Phe Pro Val  
1 5 10 15

Leu Arg Phe Leu Phe Val Phe Val Val Ser Ser Pro Cys Tyr Pro Phe  
20 25 30

Cys Pro Phe Ser Leu Thr Met Val Ile Trp Ser Leu Gly Ser Tyr Gln  
35 40 45

Ser Pro Arg Asp Ile Leu Gln Ser Leu Ser Pro Phe Trp Val Asp Phe  
50 55 60

Ile Leu Phe Tyr Phe Val Phe Phe Lys Lys Ile Thr Phe  
65 70 75

<210> 918  
<211> 187  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 918

Thr Phe Ala Ala Ala Leu Ser Ser Ser Xaa Gly Cys Pro Ser Arg Ala  
1 5 10 15

Gln Val Thr Thr Asp Xaa Leu Pro Ala Cys Arg Ser Cys Ala Cys Arg  
20 25 30

Pro Ala Gly Leu Cys Thr Leu Gln Thr Thr Leu Leu Trp Phe Leu Gly  
35 40 45

Arg Ala Gln Gln Tyr Leu Ala Ala Trp Asp Pro Ala Ser Phe Leu Leu  
50 55 60

Leu Ile Gln Lys Asp Leu Pro Pro Leu Leu His Glu Ala Glu Ala Leu  
65 70 75 80

Tyr Ser Leu Ala Ser Glu Glu Ser Leu Ala Leu Glu Val Glu Gln Gln  
85 90 95

Leu Gly Leu Glu Ile Gln Lys Leu Thr Ala Gln Ile Gln Leu Leu Pro  
100 105 110

Glu Glu Ser Leu Ser Val Phe Ser Gln Glu Cys His Lys Gln Ala Met  
115 120 125

Gln Gly Phe Lys Leu Tyr Met Pro Arg Gly Arg Tyr Trp Arg Leu Arg  
130 135 140

Leu Cys Pro Glu Pro Pro Ser Ala Pro Ser Glu Tyr Ala Gly Leu Val  
145 150 155 160

Val Arg Thr Val Leu Glu Pro Val Leu Gln Gly Leu Gln Gly Leu His  
165 170 175

Leu Lys Pro Arg Pro Leu Pro Leu Val Arg Leu  
180 185

<210> 919

<211> 260

<212> PRT

<213> Homo sapiens

&lt;400&gt; 919

Asn Ser Arg Thr Asp Val Arg Met Glu Thr Asp Leu Glu Val Ile Ile  
1 5 10 15

Lys Asp Asn Ser Leu Val Leu Thr Pro Ser His Ile Lys Ala Tyr Met  
20 25 30

Leu Met Thr Leu Gln Gly Leu Glu Tyr Leu His Gln His Trp Ile Leu  
35 40 45

His Arg Asp Leu Lys Pro Asn Asn Leu Leu Leu Asp Glu Asn Gly Val  
50 55 60

Leu Lys Leu Ala Asp Phe Gly Leu Ala Lys Ser Phe Gly Ser Pro Asn  
65 70 75 80

Arg Ala Tyr Thr His Gln Val Val Thr Arg Trp Tyr Arg Ala Pro Glu  
85 90 95

Leu Leu Phe Gly Ala Arg Met Tyr Gly Val Gly Val Asp Met Trp Ala  
100 105 110

Val Gly Cys Ile Leu Ala Glu Leu Leu Leu Arg Val Pro Phe Leu Pro  
115 120 125

Gly Asp Ser Asp Leu Asp Gln Leu Thr Arg Ile Phe Glu Thr Leu Gly  
130 135 140

Thr Pro Thr Glu Glu Gln Trp Pro Asp Met Cys Ser Leu Pro Asp Tyr  
145 150 155 160

Val Thr Phe Lys Ser Phe Pro Gly Ile Pro Leu His His Ile Phe Ser  
165 170 175

Ala Ala Gly Asp Asp Leu Leu Asp Leu Ile Gln Gly Leu Phe Leu Phe  
180 185 190

Asn Pro Cys Ala Arg Ile Thr Ala Thr Gln Ala Leu Lys Met Lys Tyr  
195 200 205

Phe Ser Asn Ala Pro Gly Pro Thr Pro Gly Cys Gln Leu Pro Arg Pro  
210 215 220

Asn Cys Pro Val Glu Thr Leu Lys Glu Gln Ser Asn Pro Ala Leu Ala  
225 230 235 240

Ile Lys Arg Lys Arg Thr Glu Ala Leu Glu Gln Gly Gly Leu Pro Lys  
245 250 255

Lys Leu Ile Phe  
260

&lt;210&gt; 920

&lt;211&gt; 345

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 920

Leu Pro Val Arg Ala Glu Pro Thr Arg Ala Ala Ala Met Ser Gly Asp  
1 5 10 15

Glu Met Ile Phe Asp Pro Thr Met Ser Lys Lys Lys Lys Lys Lys Lys  
20 25 30

Lys Pro Phe Met Leu Asp Glu Glu Gly Asp Thr Gln Thr Glu Glu Thr  
35 40 45

Gln Pro Ser Glu Thr Lys Glu Val Glu Pro Glu Pro Thr Glu Asp Lys  
50 55 60

Asp Leu Glu Ala Asp Glu Glu Asp Thr Arg Lys Lys Asp Ala Ser Asp  
65 70 75 80

Asp Leu Asp Asp Leu Asn Phe Phe Asn Gln Lys Lys Lys Lys Lys Lys  
85 90 95

Thr Lys Lys Ile Phe Asp Ile Asp Glu Ala Glu Glu Gly Val Lys Asp  
100 105 110

Leu Lys Ile Glu Ser Asp Val Gln Glu Pro Thr Glu Pro Glu Asp Asp  
115 120 125

Leu Asp Ile Met Leu Gly Asn Lys Lys Lys Lys Lys Lys Asn Val Lys  
130 135 140

Phe Pro Asp Glu Asp Glu Ile Leu Glu Lys Asp Glu Ala Leu Glu Asp  
145 150 155 160

Glu Asp Asn Lys Lys Asp Asp Gly Ile Ser Phe Ser Asn Gln Thr Gly  
165 170 175

Pro Ala Trp Ala Gly Ser Glu Arg Asp Tyr Thr Tyr Glu Glu Leu Leu  
180 185 190

Asn Arg Val Phe Asn Ile Met Arg Glu Lys Asn Pro Asp Met Val Ala  
195 200 205

Gly Glu Lys Arg Lys Phe Val Met Lys Pro Pro Gln Val Val Arg Val  
210 215 220



Gly Thr Lys Lys Thr Ser Phe Val Asn Phe Thr Asp Ile Cys Lys Leu  
225 230 235 240

Leu His Arg Gln Pro Lys His Leu Leu Ala Phe Leu Leu Ala Glu Leu  
245 250 255

Gly Thr Ser Gly Ser Ile Asp Gly Asn Asn Gln Leu Val Ile Lys Gly  
260 265 270

Arg Phe Gln Gln Lys Gln Ile Glu Asn Val Leu Arg Arg Tyr Ile Lys  
275 280 285

Glu Tyr Val Thr Cys His Thr Cys Arg Ser Pro Asp Thr Ile Leu Gln  
290 295 300

Lys Asp Thr Arg Leu Tyr Phe Leu Gln Cys Glu Thr Cys His Ser Arg  
305 310 315 320

Cys Ser Val Ala Ser Ile Lys Thr Gly Phe Gln Ala Val Thr Gly Lys  
325 330 335

Arg Ala Gln Leu Arg Ala Lys Ala Asn  
340 345

<210> 921  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 921  
Pro Val Gln Arg Lys Ile Glu Ala Arg Ser Ala Glu Asp Ser Phe Thr  
1 5 10 15

Gly Phe Val Arg Thr Leu Tyr Phe Ala Asp Thr Tyr Leu Lys Glu Cys  
20 25 30

Gln Gly

<210> 922  
<211> 215  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 922

Trp Ile Pro Ala Gln Asp Ser His Val Pro Pro Gly Leu Ser Met Ala  
1 5 10 15

Leu Ser Trp Val Leu Thr Val Leu Ser Leu Leu Pro Leu Leu Glu Ala  
20 25 30

Gln Ile Pro Leu Cys Ala Asn Leu Val Pro Val Pro Ile Thr Asn Ala  
35 40 45

Thr Leu Asp Xaa Ile Thr Gly Lys Trp Phe Tyr Ile Ala Ser Ala Phe  
50 55 60

Arg Asn Glu Glu Tyr Asn Lys Ser Val Gln Glu Ile Gln Ala Thr Phe  
65 70 75 80

Phe Tyr Phe Thr Pro Asn Lys Thr Glu Asp Thr Ile Phe Leu Arg Glu  
85 90 95

Tyr Gln Thr Arg Gln Asp Gln Cys Ile Tyr Asn Thr Thr Tyr Leu Asn  
100 105 110

Val Gln Arg Glu Asn Gly Thr Ile Ser Arg Tyr Val Gly Gly Gln Glu  
115 120 125

His Phe Ala His Leu Leu Ile Leu Arg Asp Thr Lys Thr Tyr Met Leu  
130 135 140

Ala Phe Asp Val Asn Asp Glu Lys Asn Trp Gly Leu Ser Val Tyr Ala  
145 150 155 160

Asp Lys Pro Glu Thr Thr Lys Glu Gln Leu Gly Glu Phe Tyr Glu Ala  
165 170 175

Leu Asp Cys Leu Arg Ile Pro Lys Ser Asp Val Val Tyr Thr Asp Trp  
180 185 190

Lys Lys Asp Lys Cys Glu Pro Leu Glu Lys Gln His Glu Lys Glu Arg  
195 200 205

Lys Gln Glu Glu Gly Glu Ser  
210 215

<210> 923

<211> 358

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 923

Cys Ala Met Pro Ile Gly Cys Pro Xaa Ser Ser Leu Gly Asn Ser Ala  
1 5 10 15

Arg Leu Xaa Gln Lys Gln Gln Gln Xaa Ala Gly Arg Glu Thr Ser Thr  
20 25 30

Cys Ser Leu Arg Ile Ile Ser Ala Pro Thr Met Ala Thr Phe Val Glu  
35 40 45

Leu Ser Thr Lys Ala Lys Met Pro Ile Val Gly Leu Gly Thr Trp Lys  
50 55 60

Ser Pro Leu Gly Lys Val Lys Glu Ala Val Lys Val Ala Ile Asp Ala  
65 70 75 80

Gly Tyr Arg His Ile Asp Cys Ala Tyr Val Tyr Gln Asn Glu His Glu  
85 90 95

Val Gly Glu Ala Ile Gln Glu Lys Ile Gln Glu Lys Ala Val Lys Arg  
100 105 110

Glu Asp Leu Phe Ile Val Ser Lys Leu Trp Pro Thr Phe Phe Glu Arg  
115 120 125

Pro Leu Val Arg Lys Ala Phe Glu Lys Thr Leu Lys Asp Leu Lys Leu  
130 135 140

Ser Tyr Leu Asp Val Tyr Leu Ile His Trp Pro Gln Gly Phe Lys Ser  
145 150 155 160

Gly Asp Asp Leu Phe Pro Lys Asp Asp Lys Gly Asn Ala Ile Gly Gly  
165 170 175

Lys Ala Thr Phe Leu Asp Ala Trp Glu Ala Met Glu Glu Leu Val Asp



Leu Ser Gly Asn Val Arg Cys Ser Cys His Arg Gly Pro Pro Pro Gly  
20 25 30  
Lys Cys Leu Val Ser Ser Gly Ser Arg Pro Gln Glu Arg Val Pro Cys  
35 40 45  
Gly Ala Leu Gly Ala Gly Pro Asp His His Gln Asp Ser Ser Leu Gly  
50 55 60  
Asp Arg Val Asn Ala Ile Ser Lys Asn Lys Asn  
65 70 75

<210> 925  
<211> 252  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (226)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (227)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (229)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

&lt;222&gt; (249)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 925

Ala	Thr	Ala	Asp	Lys	Glu	Xaa	Pro	Gly	Lys	His	Gln	Lys	Gly	Asp	Glu	1	5	10	15
Val	Ala	Gly	Ala	Gly	Arg	Phe	Ser	Glu	Arg	Leu	Pro	Glu	Cys	Gly	Arg	20	25	30	
Ala	Ala	Val	Thr	His	Gln	Trp	Leu	Ser	Gln	Tyr	Pro	Arg	Ser	Ser	Arg	35	40	45	
Gly	Xaa	His	Ala	His	Xaa	Val	Asn	Pro	Pro	Tyr	Tyr	Ile	Pro	Leu	Val	50	55	60	
Glu	Leu	Val	Pro	His	Pro	Glu	Thr	Ala	Pro	Thr	Thr	Val	Asp	Arg	Thr	65	70	75	80
His	Ala	Leu	Met	Lys	Lys	Ile	Gly	Gln	Cys	Pro	Met	Arg	Val	Gln	Lys	85	90	95	
Glu	Val	Ala	Gly	Phe	Val	Leu	Asn	Arg	Leu	Gln	Tyr	Ala	Ile	Ile	Ser	100	105	110	
Glu	Ala	Trp	Arg	Leu	Val	Glu	Glu	Gly	Ile	Val	Ser	Pro	Ser	Asp	Leu	115	120	125	
Asp	Leu	Val	Met	Ser	Glu	Gly	Leu	Gly	Met	Arg	Tyr	Ala	Phe	Ile	Gly	130	135	140	
Pro	Leu	Glu	Thr	Met	His	Leu	Asn	Ala	Glu	Gly	Met	Leu	Ser	Tyr	Cys	145	150	155	160
Asp	Arg	Tyr	Ser	Glu	Gly	Ile	Lys	His	Val	Leu	Gln	Thr	Phe	Gly	Pro	165	170	175	
Ile	Pro	Glu	Phe	Ser	Arg	Ala	Thr	Ala	Glu	Lys	Val	Asn	Gln	Asp	Met	180	185	190	
Cys	Met	Lys	Val	Pro	Asp	Asp	Pro	Glu	His	Leu	Ala	Ala	Arg	Arg	Gln	195	200	205	
Trp	Arg	Asp	Glu	Cys	Leu	Met	Arg	Leu	Ala	Lys	Leu	Lys	Ser	Gln	Val	210	215	220	
Gln	Xaa	Xaa	Trp	Xaa	Phe	Pro	Pro	Phe	Leu	Phe	Ser	Leu	Ile	Ala	Phe	225	230	235	240
Asp	Tyr	Ile	Leu	Gln	Pro	Val	Ile	Xaa	Val	Ser	Trp	245	250						

&lt;210&gt; 926

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 926

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Arg Pro Pro Leu Ser Trp Ser Ala Gly Pro Ser Leu Ala Ala Pro Ala
 1             5             10             15

Ala Met Ser Ser Glu Met Glu Pro Leu Leu Trp Ala Trp Ser Tyr Phe
          20             25             30

Arg Arg Arg Lys Phe Gln Leu Trp Pro Ile Tyr Ala Arg Arg Cys Trp
 35             40             45

Arg Ser Pro Leu Met Thr Arg Arg Leu Leu Gln Met Gly Ile Tyr Asn
 50             55             60

Gly Gln Leu Phe Asn Asn Leu Gly Leu Cys Cys Phe Tyr Ala Gln Gln
 65             70             75             80

Tyr Asp Met Thr Leu Thr Ser Phe Glu Arg Ala Leu Ser Leu Ala Glu
          85             90             95

Asn Glu Glu Glu Ala Ala Asp Val Trp Tyr Asn Leu Gly His Val Ala
      100             105             110

Val Gly Ile Gly Asp Thr Asn Leu Ala His Gln Cys Phe Arg Leu Ala
      115             120             125

Leu Val Asn Asn Asn Asn His Ala Glu Ala Tyr Asn Asn Leu Ala Val
      130             135             140

Leu Glu Met Arg Lys Gly His Val Glu Gln Ala Arg Ala Leu Leu Gln
      145             150             155             160

Thr Ala Ser Ser Leu Ala Pro His Met Tyr Glu Pro His Phe Asn Phe
          165             170             175

Ala Thr Ile Ser Asp Lys Ile Gly Asp Leu Gln Arg Ser Tyr Val Ala
          180             185             190

Ala Gln Lys Ser Glu Ala Ala Phe Pro Asp His Val Asp Thr Gln His
          195             200             205

Leu Ile Lys Gln Leu Arg Gln His Phe Ala Met Leu
      210             215             220

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<210> 927  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 927  
Ser Ser Trp Met Ser Ile Ser Ala Tyr Cys His Pro Ile Glu Thr Leu  
1 5 10 15  
Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys  
20 25 30  
Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu  
35 40 45  
Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile  
50 55 60  
Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser Phe  
65 70 75 80  
Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg  
85 90 95  
Gln Glu Lys Cys Asp Lys Pro Arg Arg  
100 105

<210> 928  
<211> 87  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 928

Ser Ser Leu Gly Lys Leu Asp His Gln Xaa Phe Ser Leu Asp Arg Val  
 1 5 10 15

Ser Leu Val Asn Lys Gly Asp Thr Gly Asn Pro Glu Trp Thr Val Ile  
 20 25 30

Cys Val Gly Xaa His Ser Gly Ser Gly Ala Ser Asp Thr Leu Xaa Pro  
 35 40 45

Lys Thr Ala Pro Ser Phe Arg Leu Ala Tyr Glu Met Met Phe Met Cys  
 50 55 60

Phe Leu Glu Thr Arg Trp Lys Glu Arg Gly Arg Ile Asn Phe Leu Ile  
 65 70 75 80

Leu Leu Leu Leu Asn Val Met  
 85

&lt;210&gt; 929

&lt;211&gt; 263

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (252)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (257)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 929

Ala Arg Ile Gly His Cys Val Glu Pro Pro Gly Ala Glu Ile Arg Met  
 1 5 10 15

Phe Arg Phe Met Arg Asp Val Glu Pro Glu Asp Pro Met Phe Leu Met  
 20 25 30

Asp Pro Phe Ala Ile His Arg Gln His Met Ser Arg Met Leu Ser Gly  
 35 40 45

Gly Phe Gly Tyr Ser Pro Phe Leu Ser Ile Thr Asp Gly Asn Met Pro  
 50 55 60

Gly Thr Arg Pro Ala Ser Arg Arg Met Gln Gln Ala Gly Ala Val Ser  
 65 70 75 80

Pro Phe Gly Met Leu Gly Met Ser Gly Gly Phe Met Asp Met Phe Gly  
                     85                    90                    95  
 Met Met Asn Asp Met Ile Gly Asn Met Glu His Met Thr Ala Gly Gly  
                     100                    105                    110  
 Asn Cys Gln Thr Phe Ser Ser Ser Thr Val Ile Ser Tyr Ser Asn Thr  
                     115                    120                    125  
 Gly Asp Gly Ala Pro Lys Val Tyr Gln Glu Thr Ser Glu Met Arg Ser  
                     130                    135                    140  
 Ala Pro Gly Gly Ile Arg Glu Thr Arg Arg Thr Val Arg Asp Ser Asp  
                     145                    150                    155                    160  
 Ser Gly Leu Glu Gln Met Ser Ile Gly His His Ile Arg Asp Arg Ala  
                     165                    170                    175  
 His Ile Leu Gln Arg Ser Arg Asn His Arg Thr Gly Asp Gln Glu Glu  
                     180                    185                    190  
 Arg Gln Asp Tyr Ile Asn Leu Asp Glu Ser Glu Ala Ala Ala Phe Asp  
                     195                    200                    205  
 Asp Glu Trp Arg Arg Glu Thr Ser Arg Phe Arg Gln Gln Arg Pro Leu  
                     210                    215                    220  
 Glu Phe Arg Arg Leu Glu Ser Ser Gly Ala Gly Gly Arg Arg Arg Arg  
                     225                    230                    235                    240  
 Gly Leu Pro Ala Trp Pro Ser Arg Asp Leu Arg Xaa Pro Leu Ser Arg  
                     245                    250                    255  
 Xaa Ser Arg Arg Tyr Asp Trp  
                     260

&lt;210&gt; 930

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 930

Gly	Leu	Asn	Pro	Gly	Leu	Val	Gly	Leu	Ser	Val	Ser	Tyr	Ser	Leu	Gln
1				5					10					15	

Val	Thr	Phe	Ala	Leu	Asn	Trp	Met	Ile	Arg	Met	Met	Ser	Asp	Leu	Glu
			20					25					30		

Ser	Asn	Ile	Val	Ala	Val	Glu	Arg	Val	Lys	Glu	Tyr	Ser	Lys	Thr	Glu
	35						40					45			

Thr	Glu	Ala	Pro	Trp	Val	Val	Glu	Gly	Ser	Arg	Pro	Pro	Glu	Gly	Trp
	50					55					60				

Pro	Pro	Arg	Gly	Glu	Val	Glu	Phe	Arg	Asn	Tyr	Ser	Val	Arg	Tyr	Arg
65					70					75					80

Pro	Gly	Leu	Asp	Leu	Val	Leu	Arg	Asp	Leu	Ser	Leu	His	Val	His	Gly
			85						90					95	

Gly	Glu	Lys	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Xaa	Ser	Ser
			100					105						110	

Met	Thr	Xaa	Cys	Leu	Phe	Arg	Ile	Leu	Glu	Ala	Ala	Lys	Gly	Glu	Ile
			115				120					125			

Arg	Ile	Asp	Gly	Leu	Asn	Val	Ala	Asp	Ile	Gly	Leu	His	Asp	Leu	Arg
	130					135					140				

Ser	Gln	Leu	Thr	Ile	Ile	Pro	Xaa	Asp	Pro	Ile	Leu	Phe	Ser	Gly	Thr
145					150					155					160

Leu	Arg	Met	Asn	Leu	Asp	Pro	Phe	Gly	Ser	Tyr	Ser	Glu	Glu	Asp	Ile
			165						170					175	

Trp	Trp	Ala	Leu	Glu	Leu	Ser	His	Leu	His	Thr	Phe	Val	Ser	Ser	Gln
			180					185					190		

Pro	Ala	Ala	Trp	Asp	Phe	Gln	Cys	Ser	Glu	Gly	Gly	Glu	Asn	Leu	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

195                      200                      205  
 Val Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Leu Leu Arg Lys  
     210                      215                      220  
 Xaa Arg Ile Leu Val Leu Asp Glu Ala Thr Ala Ala Ile Asp Leu Glu  
     225                      230                      235                      240  
 Thr Asp Asn Leu Ile Gln Ala Thr Ile Arg Thr Gln Phe Asp Thr Cys  
                     245                      250                      255  
 Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Met Asp Tyr Thr  
                     260                      265                      270  
 Arg Val Leu Val Leu Asp Lys Gly Val Val Ala Glu Phe Asp Ser Pro  
                     275                      280                      285  
 Ala Asn Leu Ile Ala Ala Arg Gly Ile Phe Tyr Gly Met Ala Arg Asp  
     290                      295                      300  
 Ala Gly Leu Ala  
 305

<210> 931  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 931  
 Arg Gly Cys Ala Leu Ser Cys Ala Asp Val Gln His Leu Leu Tyr Phe  
     1                      5                      10                      15  
 Asn Gly Ile Val Leu Leu Asp His Tyr Arg Thr Thr Asn Cys Gln Arg  
                     20                      25                      30  
 Val Asn Thr Asp Asp Pro Asp Leu Thr Leu Asn Pro Leu Asp  
                     35                      40                      45

<210> 932  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (191)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (227)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (246)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 932

Glu Arg Glu Thr Ser Ser Leu Leu Leu Leu Gly Leu Ser Val Cys Ala  
1 5 10 15

Thr Gly Arg Lys Ala Cys Val Arg Leu Arg Glu Trp Ala Leu Ser Arg  
20 25 30

Pro Leu Thr Met Glu Glu Leu Glu Gln Gly Leu Leu Met Gln Pro Trp  
35 40 45

Ala Trp Leu Gln Leu Ala Glu Asn Ser Leu Leu Ala Lys Val Phe Ile  
50 55 60

Thr Lys Gln Gly Tyr Ala Leu Leu Val Ser Asp Leu Gln Gln Val Trp  
65 70 75 80

His Glu Gln Val Asp Thr Ser Val Val Ser Gln Arg Ala Lys Glu Leu  
85 90 95

Asn Lys Arg Leu Thr Ala Pro Pro Ala Ala Phe Leu Cys His Leu Asp  
100 105 110

Asn Leu Leu Arg Pro Leu Leu Lys Asp Ala Ala His Pro Ser Xaa Ala  
115 120 125

Thr Phe Ser Cys Asp Cys Val Ala Asp Ala Leu Ile Leu Arg Val Arg  
130 135 140

Ser Glu Leu Ser Gly Leu Pro Phe Tyr Trp Asn Phe His Cys Met Leu  
145 150 155 160

Ala Ser Pro Ser Leu Val Ser Gln His Leu Ile Arg Pro Leu Met Gly  
165 170 175

Met Ser Leu Ala Leu Gln Cys Gln Val Arg Glu Leu Ala Thr Xaa Leu

180	185	190
His Met Lys Asp Leu Glu Ile Gln Asp Tyr Gln Glu Ser Gly Ala Thr		
195	200	205
Leu Ile Arg Asp Arg Leu Lys Thr Glu Pro Phe Glu Glu Asn Ser Phe		
210	215	220
Leu Glu Xaa Phe Met Ile Glu Lys Leu Pro Glu Ala Cys Ser Ile Gly		
225	230	235 240
Asp Gly Lys Pro Phe Xaa Met Asn Leu Gln Asp Leu Tyr Met Ala Val		
245	250	255
Thr Thr Gln Glu Val Gln Val Gly Gln Lys His Gln Gly Ala Gly Asp		
260	265	270
Pro His Thr Ser Asn Ser Ala Ser Leu Gln Gly Ile Asp Ser Gln Cys		
275	280	285
Val Asn Gln Pro Glu Gln Leu Val Ser Ser Ala Pro Thr Leu Ser Ala		
290	295	300
Pro Glu Lys Glu Ser Thr Gly Thr Ser Gly Pro Leu Gln Arg Pro Gln		
305	310	315 320
Leu Ser Lys Val Lys Arg Lys Lys Pro Arg Gly Leu Phe Ser		
325	330	

&lt;210&gt; 933

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 933

Pro Ser Cys Gln Arg Pro Lys Ser Val Ser Trp Cys His Val His Thr
1 5 10 15
Pro Cys His Phe Thr Leu His Leu Ser Pro Ser Phe Pro Met His Ala
20 25 30
Tyr Ser Glu His Pro Cys Val Gly Pro Ser Ser Ala Ser Arg Ala Cys
35 40 45
Ser Ala Val Gly Leu Phe Cys Gly Arg Lys Glu Ala Val Ser Ala Phe
50 55 60
Ser Asp Gly Thr Gly Val Glu Gly Arg Ser Cys Ile Val Ala Leu Leu
65 70 75 80

Asn Ser Pro Phe Cys Ser Ile Leu Val

85

<210> 934

<211> 314

<212> PRT

<213> Homo sapiens

<400> 934

Asp Pro Tyr Ser Gln Ser Ala Thr Ala Phe Asn Glu Met Ile Gln Glu  
1 5 10 15

Asn Gly Tyr Asn Phe Asp Arg Ser Ser Ser Thr Phe Ser Gly Ile Lys  
20 25 30

Glu Leu Ala Arg Arg Phe Ala Leu Thr Phe Gly Leu Asp Gln Leu Lys  
35 40 45

Thr Arg Glu Ala Ile Ala Met Leu His Lys Asp Gly Ile Glu Phe Ala  
50 55 60

Phe Lys Glu Pro Asn Pro Gln Gly Glu Ser His Pro Pro Leu Asn Leu  
65 70 75 80

Ala Phe Leu Asp Ile Leu Ser Glu Phe Ser Ser Lys Leu Leu Arg Gln  
85 90 95

Asp Lys Arg Thr Val Tyr Val Tyr Leu Glu Lys Phe Met Thr Phe Gln  
100 105 110

Met Ser Leu Arg Arg Glu Asp Val Trp Leu Pro Leu Met Ser Tyr Arg  
115 120 125

Asn Ser Leu Leu Ala Gly Gly Asp Asp Asp Thr Met Ser Val Ile Ser  
130 135 140

Gly Ile Ser Ser Arg Gly Ser Thr Val Arg Ser Lys Lys Ser Lys Pro  
145 150 155 160

Ser Thr Gly Lys Arg Lys Val Val Glu Gly Met Gln Leu Ser Leu Thr  
165 170 175

Glu Glu Ser Ser Ser Ser Asp Ser Met Trp Leu Ser Arg Glu Gln Thr  
180 185 190

Leu His Thr Pro Val Met Met Gln Thr Pro Gln Leu Thr Ser Thr Ile  
195 200 205

Met Arg Glu Pro Lys Arg Leu Arg Pro Glu Asp Ser Phe Met Ser Val  
 210 215 220

Tyr Pro Met Gln Thr Glu His His Gln Thr Pro Leu Asp Tyr Asn Arg  
 225 230 235 240

Arg Gly Thr Ser Leu Met Glu Asp Asp Glu Glu Pro Ile Val Glu Asp  
 245 250 255

Val Met Met Ser Ser Glu Gly Arg Ile Glu Asp Leu Asn Glu Gly Met  
 260 265 270

Asp Phe Asp Thr Met Asp Ile Asp Leu Pro Pro Ser Lys Asn Arg Arg  
 275 280 285

Glu Arg Thr Glu Leu Lys Pro Asp Phe Phe Asp Pro Ala Ser Ile Met  
 290 295 300

Asp Glu Ser Val Leu Gly Val Ser Met Phe  
 305 310

<210> 935  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 935

Thr His Leu Ile Lys Glu Asn Ile Phe Pro Ala Arg Lys Val Tyr Ser  
 1 5 10 15

Phe Ser Phe Lys Leu Ser His Leu Glu Gly Ser Cys Glu Leu Ala Tyr  
 20 25 30

Leu Gln Val Val Lys Val Pro Phe Ser Val Leu Phe Cys Phe Val Leu  
 35 40 45

Phe Phe Ser Phe Thr Gln Pro Asn Val Lys Val Val Asn Leu Gly Lys  
 50 55 60

Ser Leu Val Met Lys Cys Glu Ser Cys Tyr Gln Ile Tyr Phe Ser Asp  
 65 70 75 80

Val Ser Phe Leu Ile Leu Val Ala Asn Lys Thr Leu Thr Phe Ser Arg  
 85 90 95

Phe Ile Asp Glu Val Lys Ser Leu Val Cys Cys Glu Leu  
 100 105



<210> 936

<211> 82

<212> PRT

<213> Homo sapiens

<400> 936

Phe Gly Leu Phe Cys Thr Leu Tyr Lys Trp Thr His Ile Met Phe Ile  
1 5 10 15

Phe Trp Val Cys Leu Leu Ser Phe Asn Ile Arg Phe Val Gly Ser Ser  
20 25 30

Leu Leu Cys Val Val Leu Ser Cys Ser Leu Tyr Ser Val Pro Lys Tyr  
35 40 45

Ser Ile Leu Gln Phe Thr His Ser Thr Leu Asp Ser Lys Cys Phe His  
50 55 60

Ile Trp Ala Ile Thr Asn Ser Ala Ala Val Asn Ile His Ile His Ile  
65 70 75 80

Phe Trp

<210> 937

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 937

Phe Gln Leu Tyr Glu Lys Phe Leu His Arg Tyr Lys Met Ile Ser Glu  
1 5 10 15

Phe Thr Trp Pro Asn His Asp Leu Pro Ser Asp Lys Glu Ala Val Lys  
20 25 30

Lys Leu Ile Glu Arg Cys Gly Phe Gln Asp Asp Val Ala Tyr Gly Lys  
35 40 45

Thr Lys Ile Phe Ile Arg Thr Pro Arg Thr Leu Phe Thr Leu Glu Glu  
50 55 60

Leu Arg Ala Gln Met Leu Ile Arg Ile Val Leu Phe Leu Gln Xaa Val  
65 70 75 80

Trp Arg Gly Thr Xaa Ala Arg Met Arg Tyr Lys Arg Thr Lys Ala Ala  
85 90 95

Leu Thr Ile Ile Arg Tyr Tyr Arg Arg Tyr Lys Val Lys Ser Tyr Ile  
100 105 110

His Glu Val Ala Arg Arg Phe His Gly Val Lys Thr Met Arg Asp Tyr  
115 120 125

Gly Lys His Val Lys Trp Pro Ser Pro Pro Lys Val Leu Arg Arg Phe  
130 135 140

Glu Glu Ala Leu Gln Thr Ile Phe Asn Arg Trp Arg Ala Ser Gln Leu  
145 150 155 160

Ile Lys Ser Ile Pro Ala Ser Asp Leu Pro Gln Val Arg Ala Lys Val  
165 170 175

Ala Ala Val Glu Met Leu Lys Gly Gln Arg Ala Asp Leu Gly Leu Gln  
180 185 190

Arg Ala Trp Glu Gly Asn Tyr Leu Ala Ser Lys Pro Asp Thr Pro Gln  
195 200 205

Thr Ser Gly Thr Phe Val Pro Val Ala Asn Glu Leu Lys Arg Lys Asp  
210 215 220

Lys Tyr Met Asn Val Leu Phe Ser Cys His Val Arg Lys  
225 230 235

<210> 938

<211> 752

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (748)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 938

Ala Cys Trp Pro Ala Gly Leu Ser Arg His Ala Arg Pro Leu Ser Asn

1	5	10	15
Lys Met Leu Gln Gln Val Pro Glu Asn Ile Asn Phe Pro Ala Glu Glu	20	25	30
Glu Lys Ile Leu Glu Phe Trp Thr Glu Phe Asn Cys Phe Gln Glu Cys	35	40	45
Leu Lys Gln Ser Lys His Lys Pro Lys Phe Thr Phe Tyr Asp Gly Pro	50	55	60
Pro Phe Ala Thr Gly Leu Pro His Tyr Gly His Ile Leu Ala Gly Thr	65	70	75
Ile Lys Asp Ile Val Thr Arg Tyr Ala His Gln Ser Gly Phe His Val	85	90	95
Asp Arg Arg Phe Gly Trp Asp Cys His Gly Leu Pro Val Glu Tyr Glu	100	105	110
Ile Asp Lys Thr Leu Gly Ile Arg Gly Pro Glu Asp Val Ala Lys Met	115	120	125
Gly Ile Thr Glu Tyr Asn Asn Gln Cys Arg Ala Ile Val Met Arg Tyr	130	135	140
Ser Ala Glu Trp Lys Ser Thr Val Ser Arg Leu Gly Arg Trp Ile Asp	145	150	155
Phe Asp Asn Asp Tyr Lys Thr Leu Tyr Pro Gln Phe Met Glu Ser Val	165	170	175
Trp Trp Val Phe Lys Gln Leu Tyr Asp Lys Gly Leu Val Tyr Arg Gly	180	185	190
Val Lys Val Met Pro Phe Ser Thr Ala Cys Asn Thr Pro Leu Ser Asn	195	200	205
Phe Glu Ser His Gln Asn Tyr Lys Asp Val Gln Asp Pro Ser Val Phe	210	215	220
Val Thr Phe Pro Leu Glu Glu Asp Glu Thr Val Ser Leu Val Ala Trp	225	230	235
Thr Thr Thr Pro Trp Thr Leu Pro Ser Asn Leu Ala Val Cys Val Asn	245	250	255
Pro Glu Met Gln Tyr Val Lys Ile Lys Asp Val Ala Arg Gly Arg Leu	260	265	270
Leu Ile Leu Met Glu Ala Arg Leu Ser Ala Leu Tyr Lys Leu Glu Ser			

275	280	285
Asp Tyr Glu Ile Leu Glu Arg Phe Pro Gly Ala Tyr Leu Lys Gly Lys		
290	295	300
Lys Tyr Arg Pro Leu Phe Asp Tyr Phe Leu Lys Cys Lys Glu Asn Gly		
305	310	315 320
Ala Phe Thr Val Leu Val Asp Asn Tyr Val Lys Glu Glu Glu Gly Thr		
325	330	335
Gly Val Val His Gln Ala Pro Tyr Phe Gly Ala Glu Asp Tyr Arg Val		
340	345	350
Cys Met Asp Phe Asn Ile Ile Arg Lys Asp Ser Leu Pro Val Cys Pro		
355	360	365
Val Asp Ala Ser Gly Cys Phe Thr Thr Glu Val Thr Asp Phe Ala Gly		
370	375	380
Gln Tyr Val Lys Asp Ala Asp Lys Ser Ile Ile Arg Thr Leu Lys Glu		
385	390	395 400
Gln Gly Arg Leu Leu Val Ala Thr Thr Phe Thr His Ser Tyr Pro Phe		
405	410	415
Cys Trp Arg Ser Asp Thr Pro Leu Ile Tyr Lys Ala Val Pro Ser Trp		
420	425	430
Phe Val Arg Val Glu Asn Met Val Asp Gln Leu Leu Arg Asn Asn Asp		
435	440	445
Leu Cys Tyr Trp Val Pro Glu Leu Val Arg Glu Lys Arg Phe Gly Asn		
450	455	460
Trp Leu Lys Asp Ala Arg Asp Trp Thr Ile Ser Arg Asn Arg Tyr Trp		
465	470	475 480
Gly Thr Pro Ile Pro Leu Trp Val Ser Asp Asp Phe Glu Glu Val Val		
485	490	495
Cys Ile Gly Ser Val Ala Glu Leu Glu Glu Leu Ser Gly Ala Lys Ile		
500	505	510
Ser Asp Leu His Arg Glu Ser Val Asp His Leu Thr Ile Pro Ser Arg		
515	520	525
Cys Gly Lys Gly Ser Leu His Arg Ile Ser Glu Val Phe Asp Cys Trp		
530	535	540
Phe Glu Ser Gly Ser Met Pro Tyr Ala Gln Val His Tyr Pro Phe Glu		

545                      550                      555                      560  
Asn Lys Arg Glu Phe Glu Asp Ala Phe Pro Ala Asp Phe Ile Ala Glu  
                         565                      570                      575  
Gly Ile Asp Gln Thr Arg Gly Trp Phe Tyr Thr Leu Leu Val Leu Ala  
                         580                      585                      590  
Thr Ala Leu Phe Gly Gln Pro Pro Phe Lys Asn Val Ile Val Asn Gly  
                         595                      600                      605  
Leu Val Leu Ala Ser Asp Gly Gln Lys Met Ser Lys Arg Lys Lys Asn  
                         610                      615                      620  
Tyr Pro Asp Pro Val Ser Ile Ile Gln Lys Tyr Gly Ala Asp Ala Leu  
625                      630                      635                      640  
Arg Leu Tyr Leu Ile Asn Ser Pro Val Val Arg Ala Glu Asn Leu Arg  
                         645                      650                      655  
Phe Lys Glu Glu Gly Val Arg Asp Val Leu Lys Asp Val Leu Leu Pro  
                         660                      665                      670  
Trp Tyr Asn Ala Tyr Arg Phe Leu Ile Gln Asn Val Leu Arg Leu Gln  
                         675                      680                      685  
Lys Glu Glu Glu Ile Glu Phe Leu Tyr Asn Glu Asn Thr Val Arg Glu  
                         690                      695                      700  
Ser Pro Asn Ile Thr Asp Arg Trp Ile Leu Ser Phe Met Gln Ser Leu  
705                      710                      715                      720  
Ile Gly Phe Phe Glu Thr Glu Met Ala Gly Glu Ser Leu Leu Val Cys  
                         725                      730                      735  
Pro Pro Arg Asn Lys Asp Tyr Ser Leu Cys Asn Xaa Pro Phe Asp Ile  
                         740                      745                      750

&lt;210&gt; 939

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 939

Met Arg Arg Val Ile Leu His Ser Pro Leu Met Ser Gly Leu Arg Val  
1 5 10 15

Ala Phe Pro Asp Thr Arg Lys Thr Tyr Cys Phe Asp Ala Phe Pro Ser  
20 25 30

Ile Asp Lys Ile Ser Lys Val Thr Ser Pro Val Leu Val Ile His Gly  
35 40 45

Thr Glu Asp Glu Val Ile Asp Phe Ser His Gly Leu Ala Met Tyr Glu  
50 55 60

Arg Cys Pro Arg Ala Val Glu Pro Leu Trp Xaa Glu Gly Ala Gly His  
65 70 75 80

Asn Asp Ile Glu Leu Tyr Ala Gln Tyr Leu Glu Arg Leu Lys Gln Phe  
85 90 95

Ile Ser His Glu Leu Pro Asn Ser  
100

<210> 940

<211> 557

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (248)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (273)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (323)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 940

Gly Glu Gly Gly Gly Xaa Arg Arg Gly Arg Pro Ala Ala Gly Arg Pro  
1 5 10 15

Arg Arg Xaa Arg Thr Ala Gly Arg Xaa Gly Gly Thr Gly Ala Pro Ala  
20 25 30

Gly Ala Ser Ala His Arg Asp Ala Gly Leu Leu Arg Glu Arg Pro Ala  
35 40 45

Ala Gly Glu Ala Xaa Gly Arg Thr Glu Leu Ser Leu Leu Arg Phe Leu  
50 55 60

Ser Ala Glu Leu Thr Arg Gly Tyr Phe Leu Glu His Asn Glu Ala Lys  
65 70 75 80

Tyr Thr Glu Arg Arg Glu Arg Val Tyr Thr Cys Leu Arg Ile Pro Arg  
85 90 95

Glu Leu Glu Lys Leu Met Val Phe Gly Ile Phe Leu Cys Leu Asp Ala  
100 105 110

Phe Leu Tyr Val Phe Thr Leu Leu Pro Leu Arg Val Phe Leu Ala Leu  
115 120 125

Phe Arg Leu Leu Thr Leu Pro Cys Tyr Gly Leu Arg Asp Arg Arg Leu  
130 135 140

Leu Gln Pro Ala Gln Val Cys Asp Ile Leu Lys Gly Val Ile Leu Val  
145 150 155 160

Ile Cys Tyr Phe Met Met His Tyr Val Asp Tyr Ser Met Met Tyr His  
165 170 175

Leu Ile Arg Gly Gln Ser Val Ile Lys Leu Tyr Ile Ile Tyr Asn Met  
180 185 190

Leu Glu Val Ala Asp Arg Leu Phe Ser Ser Phe Gly Gln Asp Ile Leu  
195 200 205

Asp Ala Leu Tyr Trp Thr Ala Thr Glu Pro Lys Glu Arg Lys Arg Ala  
210 215 220

His Ile Gly Val Ile Pro His Phe Phe Met Ala Val Leu Tyr Val Phe  
225 230 235 240

Leu His Ala Ile Leu Ile Met Xaa Gln Ala Thr Thr Leu Asn Val Ala  
245 250 255

Phe Asn Ser His Asn Lys Ser Leu Ser Thr Ile Met Met Ser Asn Asn  
260 265 270

Xaa Val Glu Ile Lys Gly Ser Val Phe Lys Lys Phe Glu Lys Asn Asn  
275 280 285

Leu Phe Gln Met Ser Asn Ser Asp Ile Lys Glu Arg Phe Thr Asn Tyr  
290 295 300

Val Leu Leu Leu Ile Val Cys Leu Arg Asn Met Glu Gln Phe Ser Trp  
305 310 315 320

Asn Pro Xaa His Leu Trp Val Leu Phe Pro Asp Val Cys Met Val Ile  
325 330 335

Ala Ser Glu Ile Ala Val Asp Ile Val Lys His Ala Phe Ile Thr Lys  
340 345 350

Phe Asn Asp Ile Thr Ala Asp Val Tyr Ser Glu Tyr Arg Ala Ser Leu  
355 360 365

Ala Phe Asp Leu Val Ser Ser Arg Gln Lys Asn Ala Tyr Thr Asp Tyr  
370 375 380

Ser Asp Ser Val Ala Arg Arg Met Gly Phe Ile Pro Leu Pro Leu Ala  
385 390 395 400

Val Leu Leu Ile Arg Val Val Thr Ser Ser Ile Lys Val Gln Gly Ile  
405 410 415

Leu Ser Tyr Ala Cys Val Ile Leu Phe Tyr Phe Gly Leu Ile Ser Leu  
420 425 430

Lys Val Leu Asn Ser Ile Val Leu Leu Gly Lys Ser Cys Gln Tyr Val  
435 440 445

Lys Glu Ala Lys Met Glu Glu Lys Leu Ser Asn Pro Pro Ala Thr Cys  
450 455 460



Thr Pro Gly Lys Pro Ser Ser Lys Ser Gln Asn Lys Cys Lys Pro Ser  
 465 470 475 480

Gln Gly Leu Ser Thr Glu Glu Asn Leu Ser Ala Ser Ile Thr Lys Gln  
 485 490 495

Pro Ile His Gln Lys Glu Asn Ile Ile Pro Leu Leu Val Thr Ser Asn  
 500 505 510

Ser Asp Gln Phe Leu Thr Thr Pro Asp Gly Asp Glu Lys Asp Ile Thr  
 515 520 525

Gln Asp Asn Ser Glu Leu Lys His Arg Ser Ser Lys Lys Asp Leu Leu  
 530 535 540

Glu Ile Asp Arg Phe Thr Ile Cys Gly Asn Arg Ile Asp  
 545 550 555

<210> 941

<211> 707

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 941

Pro Thr Arg Pro Val Leu Pro Val Ser Arg Cys Ser Gly Ala Phe Gln  
 1 5 10 15

Pro Ser Val Ser Arg Arg Ser Gln Ala Gly Ser Ser Lys Phe Pro Thr  
 20 25 30

Pro Leu Gly Pro Glu Asn Ser Gly Asn Pro Thr Leu Leu Ser Ser Ala  
 35 40 45

Gln Pro Glu Thr Arg Val Ser Tyr Trp Thr Lys Leu Leu Ser Gln Leu  
 50 55 60

Leu Ala Pro Leu Pro Gly Leu Leu Gln Lys Val Leu Ile Trp Ser Gln  
 65 70 75 80

Leu Phe Gly Gly Met Phe Pro Thr Arg Trp Leu Asp Phe Ala Gly Val  
 85 90 95

Tyr Ser Ala Leu Arg Ala Leu Lys Gly Arg Glu Lys Pro Ala Ala Pro  
 100 105 110

Thr Ala Gln Lys Ser Leu Ser Ser Leu Gln Leu Asp Ser Ser Asp Pro  
 115 120 125

Ser Val Thr Ser Pro Leu Asp Trp Leu Glu Glu Gly Ile His Trp Gln  
 130 135 140

Tyr Ser Pro Pro Asp Leu Lys Leu Glu Leu Lys Ala Lys Gly Ser Ala  
 145 150 155 160

Leu Asp Pro Ala Ala Gln Ala Phe Leu Leu Glu Gln Gln Leu Trp Gly  
 165 170 175

Val Glu Leu Leu Pro Ser Ser Leu Gln Ser Arg Leu Tyr Ser Asn Arg  
 180 185 190

Glu Leu Gly Ser Ser Pro Ser Gly Leu Leu Asn Ile Gln Arg Ile Asp  
 195 200 205

Asn Phe Ser Val Val Ser Tyr Leu Leu Asn Pro Ser Tyr Leu Asp Cys  
 210 215 220

Phe Pro Arg Leu Glu Val Ser Tyr Gln Asn Ser Asp Gly Asn Ser Glu  
 225 230 235 240

Val Val Gly Phe Gln Thr Leu Thr Pro Glu Ser Ser Cys Leu Arg Glu  
 245 250 255

Asp His Cys His Pro Gln Pro Leu Xaa Ala Glu Leu Ile Pro Xaa Ser  
 260 265 270

Trp Gln Gly Cys Pro Pro Leu Ser Thr Glu Gly Leu Pro Glu Ile His  
 275 280 285

His Leu Arg Met Lys Arg Leu Glu Phe Leu Gln Gln Ala Ser Lys Gly  
 290 295 300

Gln Asp Xaa Pro Thr Pro Asp Gln Asp Asn Gly Tyr His Ser Leu Glu  
 305 310 315 320

Glu	Glu	His	Ser	Leu	Arg	Met	Asp	Pro	Lys	His	Cys	Arg	Asp	Asn		
				325							330			335		
Pro	Thr	Gln	Phe	Val	Pro	Ala	Ala	Gly	Asp	Ile	Pro	Gly	Asn	Thr	Gln	
				340							345			350		
Glu	Ser	Thr	Glu	Glu	Lys	Ile	Glu	Leu	Leu	Thr	Thr	Glu	Val	Pro	Leu	
				355							360			365		
Ala	Leu	Glu	Glu	Glu	Ser	Pro	Ser	Glu	Gly	Cys	Pro	Ser	Ser	Glu	Ile	
				370							375			380		
Pro	Met	Glu	Lys	Glu	Pro	Gly	Glu	Gly	Arg	Ile	Ser	Val	Val	Asp	Tyr	
385							390				395			400		
Ser	Tyr	Leu	Glu	Gly	Asp	Leu	Pro	Ile	Ser	Ala	Arg	Pro	Ala	Cys	Ser	
				405							410			415		
Asn	Lys	Leu	Ile	Asp	Tyr	Ile	Leu	Gly	Gly	Ala	Ser	Ser	Asp	Leu	Glu	
				420							425			430		
Thr	Ser	Ser	Asp	Pro	Glu	Gly	Glu	Asp	Trp	Asp	Glu	Glu	Ala	Glu	Asp	
				435							440			445		
Asp	Gly	Phe	Asp	Ser	Asp	Ser	Ser	Leu	Ser	Asp	Ser	Asp	Leu	Glu	Gln	
450							455				460					
Asp	Pro	Glu	Gly	Leu	His	Leu	Trp	Asn	Ser	Phe	Cys	Ser	Val	Asp	Pro	
465							470				475			480		
Tyr	Asn	Pro	Gln	Asn	Phe	Thr	Ala	Thr	Ile	Gln	Thr	Ala	Ala	Arg	Ile	
				485							490			495		
Val	Pro	Glu	Glu	Pro	Ser	Asp	Ser	Glu	Lys	Asp	Leu	Ser	Gly	Lys	Ser	
				500							505			510		
Asp	Leu	Glu	Asn	Ser	Ser	Gln	Ser	Gly	Ser	Leu	Pro	Glu	Thr	Pro	Glu	
515							520				525					
His	Ser	Ser	Gly	Glu	Glu	Asp	Asp	Trp	Glu	Ser	Ser	Ala	Asp	Glu	Ala	
530							535				540					
Glu	Ser	Leu	Lys	Leu	Trp	Asn	Ser	Phe	Cys	Asn	Ser	Asp	Asp	Pro	Tyr	
545							550				555			560		
Asn	Pro	Leu	Asn	Phe	Lys	Ala	Pro	Phe	Gln	Thr	Ser	Gly	Glu	Asn	Glu	
				565							570			575		
Lys	Gly	Cys	Arg	Asp	Ser	Lys	Thr	Pro	Ser	Glu	Ser	Ile	Val	Ala	Ile	
				580							585			590		

Ser Glu Cys His Thr Leu Leu Ser Cys Lys Val Gln Leu Leu Gly Ser  
 595 600 605  
 Gln Glu Ser Glu Cys Pro Asp Ser Val Gln Arg Asp Val Leu Ser Gly  
 610 615 620  
 Gly Arg His Thr His Val Lys Arg Lys Lys Val Thr Phe Leu Glu Glu  
 625 630 635 640  
 Val Thr Glu Tyr Tyr Ile Ser Gly Asp Glu Asp Arg Lys Gly Pro Trp  
 645 650 655  
 Glu Glu Phe Ala Arg Asp Gly Cys Arg Phe Gln Lys Arg Ile Gln Glu  
 660 665 670  
 Thr Glu Asp Ala Ile Gly Tyr Cys Leu Thr Phe Glu His Arg Glu Arg  
 675 680 685  
 Met Phe Asn Arg Leu Gln Gly Thr Cys Phe Lys Gly Leu Asn Val Leu  
 690 695 700  
 Lys Gln Cys  
 705

&lt;210&gt; 942

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 942

Arg Ile Thr Phe Ser Cys Ile Asn Tyr Ser Thr Gln Glu Leu Leu Arg  
 1 5 10 15

Phe Pro Lys Leu His Asp Ala Ile Val Glu Val Val Thr Cys Leu Leu  
 20 25 30

Arg Lys Arg Leu Pro Val Thr Asn Glu Met Val His Asn Leu Val Ala  
 35 40 45

Ile Glu Leu Ala Tyr Ile Asn Thr Lys His Pro Asp Phe Ala Asp Ala  
 50 55 60  
 Cys Gly Xaa Met Asn Asn Asn Xaa Glu Glu Gln Arg Arg Asn Arg Leu  
 65 70 75 80  
 Ala Arg Glu Leu Pro Ser Ala Val Ser Arg Asp Lys Val Ala Ser Gly  
 85 90 95  
 Gly Gly Gly Val Gly Asp Gly Val Gln Glu Pro Thr Thr Gly Asn Trp  
 100 105 110  
 Arg Gly Met Leu Lys Thr Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu  
 115 120 125  
 Lys Ser Lys Pro Ile Pro Ile Met Pro Ala Ser Pro Gln Lys Gly His  
 130 135 140  
 Ala Val Asn Leu Leu Asp Val Pro Val Pro Val Ala Arg Lys Leu Ser  
 145 150 155 160  
 Ala Arg Glu Gln Arg Asp Cys Glu Val Ile Glu Arg Leu Ile Lys Ser  
 165 170 175  
 Tyr Phe Leu Ile Val Arg Lys Asn Ile Gln Asp Ser Val Pro Lys Ala  
 180 185 190  
 Val Met His Phe Leu Val Asn His Val Lys Asp Thr Leu Gln Ser Glu  
 195 200 205  
 Leu Val Gly Gln Leu Tyr Lys Ser Ser Leu Leu Asp Asp Leu Leu Thr  
 210 215 220  
 Glu Ser Glu Asp Met Ala Gln Arg Arg Lys Glu Ala Ala Asp Met Leu  
 225 230 235 240  
 Lys Ala Leu Gln Gly Ala Ser Gln Ile Ile Ala Glu Ile Arg Glu Thr  
 245 250 255  
 His Leu Trp

&lt;210&gt; 943

&lt;211&gt; 369

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (185)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 943

Arg	Cys	Arg	Gly	Gly	Arg	Lys	Met	Glu	Leu	Gly	Ser	Cys	Leu	Glu	Gly	1	5	10	15
Gly	Arg	Glu	Ala	Ala	Glu	Glu	Glu	Gly	Glu	Pro	Glu	Val	Lys	Lys	Arg	20	25	30	
Arg	Leu	Leu	Cys	Val	Glu	Phe	Ala	Ser	Val	Ala	Ser	Cys	Asp	Ala	Ala	35	40	45	
Val	Ala	Gln	Cys	Phe	Leu	Ala	Glu	Asn	Asp	Trp	Glu	Met	Glu	Arg	Ala	50	55	60	
Leu	Asn	Ser	Tyr	Phe	Glu	Pro	Pro	Val	Glu	Glu	Ser	Ala	Leu	Glu	Arg	65	70	75	80
Arg	Pro	Glu	Thr	Ile	Ser	Glu	Pro	Lys	Thr	Tyr	Val	Asp	Leu	Thr	Asn	85	90	95	
Glu	Glu	Thr	Thr	Asp	Ser	Thr	Thr	Ser	Lys	Ile	Ser	Pro	Ser	Glu	Asp	100	105	110	
Thr	Gln	Gln	Glu	Asn	Gly	Ser	Met	Phe	Ser	Leu	Ile	Thr	Trp	Asn	Ile	115	120	125	
Asp	Gly	Leu	Asp	Leu	Asn	Asn	Leu	Ser	Glu	Arg	Ala	Arg	Gly	Val	Cys	130	135	140	
Ser	Tyr	Leu	Ala	Leu	Tyr	Ser	Pro	Asp	Val	Ile	Phe	Leu	Gln	Glu	Val	145	150	155	160
Ile	Pro	Pro	Tyr	Tyr	Ser	Tyr	Leu	Lys	Lys	Arg	Ser	Ser	Asn	Tyr	Glu	165	170	175	
Ile	Ile	Thr	Gly	His	Glu	Glu	Gly	Xaa	Phe	Thr	Ala	Ile	Met	Leu	Lys	180	185	190	
Lys	Ser	Arg	Val	Lys	Leu	Lys	Ser	Gln	Glu	Ile	Ile	Pro	Phe	Pro	Ser	195	200	205	
Thr	Lys	Met	Met	Arg	Asn	Leu	Leu	Cys	Val	His	Val	Asn	Val	Ser	Gly	210	215	220	
Asn	Glu	Leu	Cys	Leu	Met	Thr	Ser	His	Leu	Glu	Ser	Thr	Arg	Gly	His	225	230	235	240
Ala	Ala	Glu	Arg	Met	Asn	Gln	Leu	Lys	Met	Val	Leu	Lys	Lys	Met	Gln	245	250	255	

Glu Ala Pro Glu Ser Ala Thr Val Ile Phe Ala Gly Asp Thr Asn Leu  
 260 265 270  
 Arg Asp Arg Glu Val Thr Arg Cys Gly Gly Leu Pro Asn Asn Ile Val  
 275 280 285  
 Asp Val Trp Glu Phe Leu Gly Lys Pro Lys His Cys Gln Tyr Thr Trp  
 290 295 300  
 Asp Thr Gln Met Asn Ser Asn Leu Gly Ile Thr Ala Ala Cys Lys Leu  
 305 310 315 320  
 Arg Phe Asp Arg Ile Phe Phe Arg Ala Ala Ala Glu Glu Gly His Ile  
 325 330 335  
 Ile Pro Arg Ser Leu Asp Leu Leu Gly Leu Glu Lys Leu Asp Cys Gly  
 340 345 350  
 Arg Phe Pro Ser Asp His Trp Gly Leu Leu Cys Asn Leu Asp Ile Ile  
 355 360 365

Leu

<210> 944  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 944

Tyr Ile Gln Phe Met Val Ser Tyr Asn Pro Thr Pro Arg Leu Asp Val  
 1 5 10 15  
 Ser Ser Pro Asn Glu Ala Gly Arg Pro Glu Trp Glu Val His Val Ser  
 20 25 30  
 Tyr His Ser Ser Phe Tyr Val Gly Gly Cys Ser Ala Ala Arg Arg Val  
 35 40 45  
 Met Gly Val Asn Pro Tyr Ile Leu Lys Lys Asn Met Ile Leu Met Thr  
 50 55 60  
 Asn His Phe Tyr Ala Ala Ile Leu Gly Tyr Asp Glu Gly Ile Leu Ser  
 65 70 75 80  
 Asp Asp His Gly Leu Ala Ala Ala Leu Trp Arg Thr Phe Phe Asn Arg  
 85 90 95

Lys Cys Glu Asp Pro Arg His Leu Glu Leu Leu Val Glu Tyr Val Arg  
 100 105 110

Lys Gln Ile Gln Tyr Leu Asp Ser Met Asn Gly Glu Asp Leu Leu Leu  
 115 120 125

Thr Gly Glu Val Ser Trp Arg Pro Leu Val Glu Lys Asn Pro Gln Ser  
 130 135 140

Ile Leu Lys Pro His Ser Pro Thr Tyr Asn Asp Glu Gly Leu  
 145 150 155

<210> 945

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 945

Lys Leu Val Pro Ala Arg Pro Xaa Asp Thr Gln Cys Arg Arg Pro Ser  
 1 5 10 15

Arg Arg Arg Gln Ile Gly Ala Asp Ser Cys Pro Ala Pro Thr Ala Ser  
 20 25 30

Ala Thr Met Ser His His Trp Gly Tyr Gly Lys His Asn Gly Pro Glu  
 35 40 45

His Trp His Lys Asp Phe Pro Ile Ala Lys Gly Glu Arg Gln Ser Pro  
 50 55 60

Val Asp Ile Asp Thr His Thr Ala Lys Tyr Asp Pro Ser Leu Lys Pro  
 65 70 75 80

Leu Ser Val Ser Tyr Asp Gln Ala Thr Ser Leu Arg Ile Leu Asn Asn  
 85 90 95

Gly His Ala Phe Asn Val Glu Phe Asp Asp Ser Gln Asp Lys Ala Val  
 100 105 110

Leu Lys Gly Gly Pro Leu Asp Gly Thr Tyr Arg Leu Ile Gln Phe His  
 115 120 125

Phe His Trp Gly Ser Leu Asp Gly Gln Gly Ser Glu His Thr Val Asp  
 130 135 140



Lys Lys Lys Tyr Ala Ala Glu Leu His Leu Val His Trp Asn Thr Lys  
145 150 155 160

Tyr Gly Asp Phe Gly Lys Ala Val Gln Gln Pro Asp Gly Leu Ala Val  
165 170 175

Leu Gly Ile Phe Leu Lys Val Gly Ser Ala Lys Pro Gly Leu Gln Lys  
180 185 190

Val Val Asp Val Leu Asp Ser Ile Lys Thr Lys Gly Lys Ser Ala Asp  
195 200 205

Phe Thr Asn Phe Asp Pro Arg Gly Leu Leu Pro Glu Ser Leu Asp Tyr  
210 215 220

Trp Thr Tyr Pro Gly Ser Leu Thr Thr Pro Pro Leu Leu Glu Cys Val  
225 230 235 240

Thr Trp Ile Val Leu Lys Glu Pro Ile Ser Val Ser Ser Glu Gln Val  
245 250 255

Leu Lys Phe Arg Lys Leu Asn Phe Asn Gly Glu Gly Glu Pro Glu Glu  
260 265 270

Leu Met Val Asp Asn Trp Arg Pro Ala Gln Pro Leu Lys Asn Arg Gln  
275 280 285

Ile Lys Ala Ser Phe Lys  
290

<210> 946

<211> 69

<212> PRT

<213> Homo sapiens

<400> 946

Lys Ser Ile Glu Gln Lys Gly Met His Ala Val Phe Gln Trp Leu Arg  
1 5 10 15

His Ala Phe Tyr Ser Leu Thr Ser Ile His Phe Phe Thr Thr Cys Ile  
20 25 30

Lys Thr Asn Asp Leu Cys Phe Cys His Arg Gln Lys Gln Val Asp Thr  
35 40 45

Gly Gly Leu Ala Leu Leu Ile Asn Phe Phe Ser Ile Arg Phe Ser Leu  
50 55 60

Ile Met Leu Asn Phe  
65

<210> 947  
<211> 163  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (130)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 947  
Leu Xaa Lys Gly Thr Lys Leu Xaa Leu His Arg Gly Ala Asp Arg Ser  
1 5 10 15  
Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Ile Asn  
20 25 30  
Arg Ile Phe Arg Ile Cys Asn Leu Thr Arg Pro Gln Glu Gly Tyr Leu  
35 40 45  
Met Val Gln Gln Phe Gln Tyr Leu Gly Trp Ala Ser His Arg Glu Val  
50 55 60  
Pro Gly Ser Lys Arg Ser Phe Leu Lys Leu Ile Leu Gln Val Glu Lys  
65 70 75 80  
Trp Gln Glu Glu Cys Glu Glu Gly Glu Gly Arg Thr Ile Ile His Cys  
85 90 95  
Leu Asn Gly Gly Gly Arg Ser Gly Met Phe Cys Ala Ile Gly Ile Val  
100 105 110  
Val Glu Met Val Lys Arg Ala Lys Cys Cys Arg Cys Phe Pro Cys Ser  
115 120 125  
Lys Xaa Thr Glu Gly Thr Ala Ser Gln Thr Trp Trp Glu Ala Pro Glu

130 135 140  
Gln Tyr Arg Phe Cys Tyr Asp Val Ala Leu Glu Tyr Leu Gly Ile Ile  
145 150 155 160  
Leu Val Gly

<210> 948  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 948  
Thr Ser Leu Lys Pro Cys Arg Asn Glu Ser Leu Leu Leu Asn Glu Met  
1 5 10 15  
Leu Lys Pro Ile Lys Lys His Ala Val Met Pro Ser Phe Pro Phe His  
20 25 30  
Arg Val His Ala Ser Pro Ala Gly Glu Ser His Ala Ala Arg Gly Asn  
35 40 45  
Trp Leu His Ser Leu Gly Cys Cys Arg Thr Lys Arg Lys Glu Ala Ala  
50 55 60  
Lys Cys Leu Tyr Val Val Leu Asn Pro Arg Arg Ile Lys Cys Arg Gly  
65 70 75 80  
Gly Met Ala Lys Gly Gly Trp  
85

<210> 949  
<211> 88  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 949

Pro Arg Arg His Arg Val Pro Gly Ser Gly Phe Ala Phe Pro Lys Asn  
1 5 10 15

Glu Asn Lys Leu Leu Pro Lys Glu Leu Val Phe Pro Leu Leu Phe Ser  
20 25 30

Asn Cys Glu Gly Pro Arg Gly Val Glu His Gly Ala Pro His Lys Pro  
35 40 45

Xaa Gly Trp Cys Pro Gly Tyr Gln Gly His Ala Xaa Gly Leu Asp Asp  
50 55 60

Leu Ser Leu Gln Gly Ala Leu Val Val Xaa Asn Trp Leu Lys Val Thr  
65 70 75 80

Xaa Glu Gly Xaa Cys Gly Asn Trp  
85

&lt;210&gt; 950

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 950

Trp Leu Leu Cys Pro Val Arg Val Phe Ser Ser Leu Thr Trp Val His  
1 5 10 15

Phe Leu Met Ala His Met Lys Phe Gly Ser Tyr Gly Leu Thr Leu Ala  
20 25 30

Met Val Leu Ser Tyr Gly Glu Gln His Gln Arg Pro Val Thr Cys Lys  
35 40 45

Leu Lys Ile Gln Cys Gln Gly Pro Ser Pro Ala Pro Leu Ile Glu Asn  
50 55 60

Leu Leu Ala Ile Cys Ile Phe Arg Cys Ser Arg Leu Val  
65 70 75

<210> 951  
<211> 42  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 951  
Thr Ser Gly Pro Lys Ser Ser Ala Cys Leu Ser Leu Pro Arg Cys Trp  
1 5 10 15

Asp Tyr Lys Cys Glu Pro Leu Cys Thr Xaa Phe Val Leu Thr Tyr Phe  
20 25 30

Glu Leu Ala Pro Tyr Ser Lys Ala Ala Ser  
35 40

<210> 952  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 952  
Ala Arg Lys Glu Ile Gln Tyr Cys Phe Trp Thr Leu Ile Lys Ser Cys  
1 5 10 15

Ala Ile Asp Thr Tyr Met Ser His Leu Ala Val Leu Arg Arg Ala Ile  
20 25 30

Ile Xaa Leu Gln Leu Thr Leu Glu Asn Ile Leu Ala Phe Glu His Phe  
35 40 45

Ser Asn Asn Gln Val Asp Ser Arg Gly Ser

50

55

<210> 953  
 <211> 223  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (180)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (220)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 953  
 Arg Pro Cys Pro Glu Glu Ala Glu Ile Gly Ile Ala Met Gly Ser Gly  
 1 5 10 15

Thr Ala Val Ala Lys Thr Ala Ser Glu Met Val Leu Ala Asp Asp Asn  
 20 25 30

Phe Ser Thr Ile Val Xaa Ala Val Glu Glu Gly Arg Ala Ile Tyr Asn  
 35 40 45

Asn Met Lys Gln Phe Ile Arg Tyr Leu Ile Ser Ser Asn Val Gly Glu  
 50 55 60

Val Val Cys Ile Phe Leu Thr Ala Ala Leu Gly Leu Pro Glu Ala Leu  
 65 70 75 80

Ile Pro Val Gln Leu Leu Trp Val Asn Leu Val Thr Asp Gly Leu Pro  
 85 90 95

Ala Thr Ala Leu Gly Phe Asn Pro Pro Asp Leu Asp Ile Met Asp Arg  
 100 105 110

Pro Pro Arg Ser Pro Lys Glu Pro Leu Ile Ser Gly Trp Leu Phe Phe  
 115 120 125

Arg Tyr Met Ala Ile Gly Gly Tyr Val Gly Ala Ala Thr Val Gly Ala  
 130 135 140

Ala Ala Trp Trp Phe Leu Tyr Ala Glu Asp Gly Pro His Val Asn Tyr  
 145 150 155 160

Ser Gln Leu Thr His Phe Met Gln Cys Thr Glu Asp Asn Thr His Phe  
 165 170 175

Glu Gly Ile Xaa Cys Glu Val Phe Glu Ala Pro Glu Pro Met Thr Met  
 180 185 190

Ala Leu Ser Val Leu Val Thr Ile Glu Met Cys Asn Ala Leu Asn Ser  
 195 200 205

Leu Ser Glu Asn Gln Ser Leu Leu Arg Asn Cys Xaa Pro Trp Gly  
 210 215 220

<210> 954

<211> 412

<212> PRT

<213> Homo sapiens

<400> 954

His Glu Leu Met Gln Glu Ala Gly Asp Glu Cys Glu Pro Glu Trp Cys  
 1 5 10 15

Asp Ala Glu Asp Pro Leu Phe Ile Leu Tyr Thr Ser Gly Ser Thr Gly  
 20 25 30

Lys Pro Lys Gly Val Val His Thr Val Gly Gly Tyr Met Leu Tyr Val  
 35 40 45

Ala Thr Thr Phe Lys Tyr Val Phe Asp Phe His Ala Glu Asp Val Phe  
 50 55 60

Trp Cys Thr Ala Asp Ile Gly Trp Ile Thr Gly His Ser Tyr Val Thr  
 65 70 75 80

Tyr Gly Pro Leu Ala Asn Gly Ala Thr Ser Val Leu Phe Glu Gly Ile  
 85 90 95

Pro Thr Tyr Pro Asp Val Asn Arg Leu Trp Ser Ile Val Asp Lys Tyr  
 100 105 110

Lys Val Thr Lys Phe Tyr Thr Ala Pro Thr Ala Ile Arg Leu Leu Met  
 115 120 125

Lys Phe Gly Asp Glu Pro Val Thr Lys His Ser Arg Ala Ser Leu Gln  
 130 135 140

Val Leu Gly Thr Val Gly Glu Pro Ile Asn Pro Glu Ala Trp Leu Trp  
 145 150 155 160

Tyr His Arg Val Val Gly Ala Gln Arg Cys Pro Ile Val Asp Thr Phe  
 165 170 175

Trp Gln Thr Glu Thr Gly Gly His Met Leu Thr Pro Leu Pro Gly Ala  
 180 185 190

Thr Pro Met Lys Pro Gly Ser Ala Thr Phe Pro Phe Phe Gly Val Ala  
 195 200 205

Pro Ala Ile Leu Asn Glu Ser Gly Glu Glu Leu Glu Gly Glu Ala Glu  
 210 215 220

Gly Tyr Leu Val Phe Lys Gln Pro Trp Pro Gly Ile Met Arg Thr Val  
 225 230 235 240

Tyr Gly Asn His Glu Arg Phe Glu Thr Thr Tyr Phe Lys Lys Phe Pro  
 245 250 255

Gly Tyr Tyr Val Thr Gly Asp Gly Cys Gln Arg Asp Gln Asp Gly Tyr  
 260 265 270

Tyr Trp Ile Thr Gly Arg Ile Asp Asp Met Leu Asn Val Ser Gly His  
 275 280 285

Leu Leu Ser Thr Ala Glu Val Glu Ser Ala Leu Val Glu His Glu Ala  
 290 295 300

Val Ala Glu Ala Ala Val Val Gly His Pro His Pro Val Lys Gly Glu  
 305 310 315 320

Cys Leu Tyr Cys Phe Val Thr Leu Cys Asp Gly His Thr Phe Ser Pro  
 325 330 335

Lys Leu Thr Glu Glu Leu Lys Lys Gln Ile Arg Glu Lys Ile Gly Pro  
 340 345 350

Ile Ala Thr Pro Asp Tyr Ile Gln Asn Ala Pro Gly Leu Pro Lys Thr  
 355 360 365

Arg Ser Gly Lys Ile Met Arg Arg Val Leu Arg Lys Ile Ala Gln Asn  
 370 375 380

Asp His Asp Leu Gly Asp Met Ser Thr Val Ala Asp Pro Ser Val Ile  
 385 390 395 400

Ser His Leu Phe Ser His Arg Cys Leu Thr Ile Gln  
 405 410



<210> 955  
<211> 150  
<212> PRT  
<213> Homo sapiens

<400> 955  
Gly Leu Leu Arg Ala Trp Gln Leu Arg Ile Asn Ala Gly Leu Arg Leu  
1 5 10 15  
Ala Ala Arg Phe Leu Pro Glu Pro Leu Leu Ser Leu Val Asn His Thr  
20 25 30  
Gly Gln Arg Ser Asp Met Gln Lys Val Thr Leu Gly Leu Leu Val Phe  
35 40 45  
Leu Ala Gly Phe Pro Val Leu Asp Ala Asn Asp Leu Glu Asp Lys Asn  
50 55 60  
Ser Pro Phe Tyr Tyr Asp Trp His Ser Leu Gln Val Gly Gly Leu Ile  
65 70 75 80  
Cys Ala Gly Val Leu Cys Ala Met Gly Ile Ile Ile Val Met Ser Glu  
85 90 95  
Trp Arg Ser Ser Gly Glu Gln Ala Gly Arg Gly Trp Gly Ser Pro Pro  
100 105 110  
Leu Thr Thr Gln Leu Ser Pro Thr Gly Ala Lys Cys Lys Cys Lys Phe  
115 120 125  
Gly Gln Lys Ser Gly His His Pro Gly Glu Thr Pro Pro Leu Ile Thr  
130 135 140  
Pro Gly Ser Ala Gln Ser  
145 150

<210> 956  
<211> 136  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 956

Val Asp Pro Arg Val Xaa Pro Arg Ser Gly Gly Glu Lys Pro Gly Gly  
1 5 10 15  
Leu Gly Ala Pro Ala Gly Ile Gly Ser Arg Leu Gly Cys Glu Arg Phe  
20 25 30  
Ser Arg Ser Arg Glu Ile Leu Gln Ala Ile Thr Met Ser Thr Asp Thr  
35 40 45  
Gly Val Ser Leu Pro Ser Tyr Glu Glu Asp Gln Gly Ser Lys Leu Ile  
50 55 60  
Arg Lys Ala Lys Glu Ala Pro Phe Val Pro Val Gly Ile Ala Gly Phe  
65 70 75 80  
Ala Ala Ile Val Ala Tyr Gly Leu Tyr Lys Leu Lys Ser Arg Gly Asn  
85 90 95  
Thr Lys Met Ser Ile His Leu Ile His Met Arg Val Ala Ala Gln Gly  
100 105 110  
Phe Val Val Gly Ala Met Thr Val Gly Met Gly Tyr Ser Met Tyr Arg  
115 120 125  
Glu Phe Trp Ala Lys Pro Lys Pro  
130 135

<210> 957

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (241)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 957

Ile	Glu	Thr	Ser	Asn	Lys	Asn	Asp	Met	Thr	Ile	Asp	Ile	Leu	His	Ala
1				5					10				15		

Asp	Gly	Glu	Arg	Pro	Asn	Val	Leu	Glu	Asn	Leu	Asp	Asn	Ser	Lys	Glu
			20					25					30		

Lys	Thr	Val	Gly	Ser	Glu	Ala	Ala	Lys	Thr	Glu	Asp	Thr	Val	Leu	Cys
		35					40					45			

Ser	Ser	Asp	Thr	Asp	Glu	Glu	Cys	Leu	Ile	Ile	Xaa	Thr	Glu	Cys	Lys
	50					55					60				

Asn	Asn	Ser	Asp	Gly	Lys	Thr	Ala	Val	Val	Gly	Ser	Asn	Leu	Ser	Ser
65					70					75				80	

Arg	Pro	Ala	Ser	Pro	Asn	Ser	Ser	Ser	Gly	Gln	Ala	Ser	Val	Gly	Asn
			85						90					95	

Gln	Thr	Asn	Thr	Ala	Cys	Xaa	Pro	Glu	Glu	Ser	Cys	Val	Leu	Lys	Lys
		100						105					110		

Pro	Ile	Lys	Arg	Val	Tyr	Lys	Lys	Phe	Asp	Pro	Val	Gly	Glu	Ile	Leu
		115					120					125			

Lys	Met	Gln	Asp	Glu	Leu	Xaa	Lys	Pro	Ile	Ser	Arg	Lys	Val	Pro	Glu
	130					135					140				

Leu	Pro	Leu	Met	Asn	Leu	Glu	Asn	Ser	Lys	Gln	Pro	Ser	Val	Ser	Glu
145					150					155				160	

Gln	Leu	Ser	Gly	Pro	Ser	Asp	Ser	Ser	Ser	Trp	Pro	Lys	Ser	Gly	Trp
			165						170					175	

Pro	Ser	Ala	Phe	Gln	Lys	Pro	Lys	Gly	Arg	Leu	Pro	Tyr	Glu	Leu	Gln
		180						185					190		

Asp	Tyr	Val	Glu	Asp	Thr	Ser	Glu	Tyr	Leu	Ala	Pro	Gln	Glu	Gly	Asn
		195					200					205			

Phe	Val	Tyr	Lys	Leu	Phe	Ser	Leu	Gln	Asp	Leu	Leu	Leu	Leu	Val	Arg
	210					215					220				

Cys	Ser	Val	Gln	Arg	Ile	Glu	Thr	Arg	Pro	Arg	Ser	Lys	Lys	Arg	Lys
225					230					235				240	

Xaa	Ile	Arg	Arg	Gln	Phe	Pro	Val	Tyr	Val	Leu	Pro	Lys	Val	Glu	Tyr
				245					250					255	

Gln Ala Cys Tyr Gly Val Glu Ala Leu Thr Glu Ser Glu Leu Cys Arg  
260 265 270

Leu Trp Thr Glu Ser Leu Leu His Ser Asn Ser Ser Phe Tyr Val Gly  
275 280 285

His Ile Asp Ala Phe Thr Ser Lys Leu Phe Leu Leu Glu Glu Ile Thr  
290 295 300

Ser Glu Glu Leu Lys Glu Lys Leu Ser Ala Leu Lys Ile Ser Asn Leu  
305 310 315 320

Phe Asn Ile Leu Gln His Ile Leu Lys Lys Leu Ser Ser Leu Gln Glu  
325 330 335

Gly Ser Tyr Leu Leu Ser His Ala Ala Glu Asp Ser Ser Leu Leu Ile  
340 345 350

Tyr Lys Ala Ser Asp Gly Lys Val Thr Arg Thr Ala Tyr Asn Leu Tyr  
355 360 365

Lys Thr His Cys Gly Leu Pro Gly Val Pro Ser Ser Leu Ser Val Pro  
370 375 380

Trp Val Pro Leu Asp Pro Ser Leu Leu Leu Pro Tyr His Ile His His  
385 390 395 400

Gly Arg Ile Pro Cys Thr Phe Pro Pro Lys Ser Leu Asp Thr Thr Thr  
405 410 415

Gln Gln Lys Ile Gly Gly Thr Arg Met Pro Thr Arg Ser His Arg Asn  
420 425 430

Pro Val Ser Met Glu Thr Lys Ser Ser Cys Leu Pro Ala Gln Gln Val  
435 440 445

Glu Thr Glu Gly Val Ala Pro His Lys Arg Lys Ile Thr  
450 455 460

<210> 958

<211> 248

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 958

Asp Trp Gly Ala Thr Gln Xaa Arg Arg Ser Arg Asp Arg Arg Trp Gly  
 1 5 10 15

Pro Arg Asn Leu Ser Leu Asp Ile Gly Thr Glu Val Phe Ala Pro Gly  
 20 25 30

Pro Gly Ser Gly Ile Gln Lys Gln Arg Glu Pro Arg Lys Gly Arg Leu  
 35 40 45

Ile Val Cys Gly His Gly Thr Leu Glu Arg Asp Gly Val Phe Cys Leu  
 50 55 60

Leu Ser Asp Asp His Gly Ala Ser Trp Arg Tyr Gly Ser Gly Val Ser  
 65 70 75 80

Gly Ile Pro Tyr Gly Gln Pro Lys Gln Glu Asn Asp Phe Asn Pro Asp  
 85 90 95

Glu Cys Gln Pro Tyr Glu Leu Pro Asp Gly Ser Val Val Ile Asn Ala  
 100 105 110

Arg Asn Gln Asn Asn Tyr His Cys His Cys Arg Ile Val Leu Arg Ser  
 115 120 125

Tyr Asp Ala Cys Asp Thr Leu Arg Pro Arg Asp Val Thr Phe Asp Pro  
 130 135 140

Glu Leu Val Asp Pro Val Val Ala Ala Gly Ala Val Val Thr Ser Ser  
 145 150 155 160

Gly Ile Val Phe Phe Ser Asn Pro Ala His Pro Glu Phe Arg Val Asn  
 165 170 175

Leu Thr Leu Arg Trp Ser Phe Ser Asn Gly Thr Ser Trp Arg Lys Glu  
 180 185 190

Thr Val Gln Leu Trp Pro Gly Pro Ser Gly Tyr Ser Ser Leu Ala Thr  
 195 200 205

Leu Glu Gly Ser Met Asp Gly Glu Glu Gln Ala Pro Gln Leu Tyr Val  
 210 215 220

Leu Tyr Glu Lys Gly Arg Asn His Tyr Thr Glu Ser Ile Ser Val Ala  
 225 230 235 240

Lys Ile Ser Val Tyr Gly Thr Leu  
 245

<210> 959  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 959  
Ile Arg His Glu Gly Ala Gly Pro Ser Gln Leu Arg Leu His Tyr Pro  
1 5 10 15  
Arg Ile Ser Met Ala Val Arg Gln Trp Val Ile Ala Leu Ala Leu Ala  
20 25 30  
Ala Leu Leu Val Val Asp Arg Glu Val Pro Val Ala Ala Gly Lys Leu  
35 40 45  
Pro Phe Ser Arg Met Pro Ile Cys Glu His Met Val Glu Ser Pro Thr  
50 55 60  
Cys Ser Gln Met Ser Asn Leu Val Cys Gly Thr Asp Gly Leu Thr Tyr  
65 70 75 80  
Thr Asn Glu Cys Gln Leu Cys Leu Ala Arg Ile Lys Thr Lys Gln Asp  
85 90 95  
Ile Gln Ile Met Lys Asp Gly Lys Cys  
100 105

<210> 960  
<211> 237  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (166)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (177)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 960

Leu Gly Trp Ser Leu Arg Gly Gly His Trp His Gly Thr His Pro Glu  
1 5 10 15

Ala Ser Pro Gly Cys Pro Gly Gly Ala Ala Ser Ser Pro Ala Gly Trp  
20 25 30

Trp Thr Arg Ser Val Arg Ser Trp Gly Ser Ser Phe Thr Ser Glu Asp  
35 40 45

Cys Ser Thr Thr Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu  
50 55 60

Thr Ser Val Xaa Arg Leu Ser Ser Lys Ser Val Asn Ala Gln Val Thr  
65 70 75 80

Asp Ile Asn Ser Lys Gly Leu Glu Leu Arg Lys Thr Val Thr Thr Val  
85 90 95

Glu Thr Gln Asn Leu Glu Gly Leu His His Asp Gly Gln Phe Cys His  
100 105 110

Lys Pro Cys Pro Pro Gly Glu Arg Lys Ala Arg Asp Cys Thr Val Asn  
115 120 125

Gly Asp Glu Pro Asp Cys Val Pro Cys Gln Glu Gly Lys Glu Tyr Thr  
130 135 140

Asp Lys Ala His Phe Ser Ser Lys Cys Arg Arg Cys Arg Leu Cys Asp  
145 150 155 160

Glu Gly His Gly Leu Xaa Val Glu Ile Asn Cys Thr Arg Thr Gln Asn  
165 170 175

Xaa Lys Cys Arg Cys Lys Pro Asn Phe Phe Xaa Asn Ser Thr Val Cys  
180 185 190

Glu His Cys Asp Pro Cys Thr Lys Cys Glu His Gly Ile Ile Lys Glu  
195 200 205

Cys Thr Leu Thr Ser Asn Thr Lys Cys Lys Glu Glu Gly Ser Xaa Ser  
210 215 220

Asn Leu Gly Trp Leu Trp Leu Leu Leu Pro Ile Pro  
 225 230 235

<210> 961  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 961  
 Gln Pro Met Ser Ser Thr Trp Val Thr Asn His Ser Glu Ile Leu Asn  
 1 5 10 15  
 Thr Tyr Pro Leu Gly Ala Gly Gly Gly Asn Asp Val Gln Tyr Leu Lys  
 20 25 30  
 Gln Asn Leu Thr Trp Thr Glu Arg Leu Tyr Phe Pro Leu Leu His Glu  
 35 40 45  
 Ser Leu Ile Ile Leu Gly Gly Leu Leu Cys Ile Pro Pro Phe Leu Leu  
 50 55 60  
 Ser Pro Pro Leu Pro Phe Val Phe Ser Lys Glu Ser Glu Leu Arg Phe  
 65 70 75 80  
 Pro Cys Ser Pro Ala Thr Leu Ile Ser Lys Thr Cys Leu Cys Val Arg  
 85 90 95  
 Phe Phe Thr Gly Asn Met Thr Phe Cys Phe Cys Ile Gly Phe Thr Val  
 100 105 110  
 Ile Gln Phe Ser Ser Leu Ile Ser Ser Lys Thr Lys Ser Glu Cys Thr  
 115 120 125  
 Arg Phe Phe Arg  
 130

<210> 962  
 <211> 613  
 <212> PRT  
 <213> Homo sapiens

<400> 962  
 Ala Val Ala Asn Met Ser Gly Trp Glu Ser Tyr Tyr Lys Thr Glu Gly  
 1 5 10 15  
 Asp Glu Glu Ala Glu Glu Glu Gln Glu Glu Asn Leu Glu Ala Ser Gly



20										25										30										
Asp	Tyr	Lys	Tyr	Ser	Gly	Arg	Asp	Ser	Leu	Ile	Phe	Leu	Val	Asp	Ala															
		35					40					45																		
Ser	Lys	Ala	Met	Phe	Glu	Ser	Gln	Ser	Glu	Asp	Glu	Leu	Thr	Pro	Phe															
	50					55					60																			
Asp	Met	Ser	Ile	Gln	Cys	Ile	Gln	Ser	Val	Tyr	Ile	Ser	Lys	Ile	Ile															
	65				70					75					80															
Ser	Ser	Asp	Arg	Asp	Leu	Leu	Ala	Val	Val	Phe	Tyr	Gly	Thr	Glu	Lys															
				85					90					95																
Asp	Lys	Asn	Ser	Val	Asn	Phe	Lys	Asn	Ile	Tyr	Val	Leu	Gln	Glu	Leu															
			100					105					110																	
Asp	Asn	Pro	Gly	Ala	Lys	Arg	Ile	Leu	Glu	Leu	Asp	Gln	Phe	Lys	Gly															
		115					120					125																		
Gln	Gln	Gly	Gln	Lys	Arg	Phe	Gln	Asp	Met	Met	Gly	His	Gly	Ser	Asp															
	130					135					140																			
Tyr	Ser	Leu	Ser	Glu	Val	Leu	Trp	Val	Cys	Ala	Asn	Leu	Phe	Ser	Asp															
	145				150				155						160															
Val	Gln	Phe	Lys	Met	Ser	His	Lys	Arg	Ile	Met	Leu	Phe	Thr	Asn	Glu															
				165					170					175																
Asp	Asn	Pro	His	Gly	Asn	Asp	Ser	Ala	Lys	Ala	Ser	Arg	Ala	Arg	Thr															
			180					185					190																	
Lys	Ala	Gly	Asp	Leu	Arg	Asp	Thr	Gly	Ile	Phe	Leu	Asp	Leu	Met	His															
		195					200					205																		
Leu	Lys	Lys	Pro	Gly	Gly	Phe	Asp	Ile	Ser	Leu	Phe	Tyr	Arg	Asp	Ile															
		210				215					220																			
Ile	Ser	Ile	Ala	Glu	Asp	Glu	Asp	Leu	Arg	Val	His	Phe	Glu	Glu	Ser															
	225				230					235					240															

290	295	300
Arg Thr Phe Asn Thr Ser Thr Gly Gly Leu Leu Leu Pro Ser Asp Thr		
305	310	315 320
Lys Arg Ser Gln Ile Tyr Gly Ser Arg Gln Ile Ile Leu Glu Lys Glu		
	325	330 335
Glu Thr Glu Glu Leu Lys Arg Phe Asp Asp Pro Gly Leu Met Leu Met		
	340	345 350
Gly Phe Lys Pro Leu Val Leu Leu Lys Lys His His Tyr Leu Arg Pro		
	355	360 365
Ser Leu Phe Val Tyr Pro Glu Glu Ser Leu Val Ile Gly Ser Ser Thr		
	370	375 380
Leu Phe Ser Ala Leu Leu Ile Lys Cys Leu Glu Lys Glu Val Ala Ala		
	385	390 395 400
Leu Cys Arg Tyr Thr Pro Arg Arg Asn Ile Pro Pro Tyr Phe Val Ala		
	405	410 415
Leu Val Pro Gln Glu Glu Glu Leu Asp Asp Gln Lys Ile Gln Val Thr		
	420	425 430
Pro Pro Gly Phe Gln Leu Val Phe Leu Pro Phe Ala Asp Asp Lys Arg		
	435	440 445
Lys Met Pro Phe Thr Glu Lys Ile Met Ala Thr Pro Glu Gln Val Gly		
	450	455 460
Lys Met Lys Ala Ile Val Glu Lys Leu Arg Phe Thr Tyr Arg Ser Asp		
	465	470 475 480
Ser Phe Glu Asn Pro Val Leu Gln Gln His Phe Arg Asn Leu Glu Ala		
	485	490 495
Leu Ala Leu Asp Leu Met Glu Pro Glu Gln Ala Val Asp Leu Thr Leu		
	500	505 510
Pro Lys Val Glu Ala Met Asn Lys Arg Leu Gly Ser Leu Val Asp Glu		
	515	520 525
Phe Lys Glu Leu Val Tyr Pro Pro Asp Tyr Asn Pro Glu Gly Lys Val		
	530	535 540
Thr Lys Arg Lys His Asp Asn Glu Gly Ser Gly Ser Lys Arg Pro Lys		
	545	550 555 560
Val Glu Tyr Ser Glu Glu Glu Leu Lys Thr His Ile Ser Lys Gly Thr		

Leu Lys Leu Arg Ala Ser Val Ser Thr Lys Cys Asn Leu Glu Asp Gln  
130 135 140

Val Lys Lys Leu Glu Asp Asp Arg Asn Ser Leu Gln Ala Ala Lys Ala  
 145 150 155 160  
 Gly Leu Glu Asp Glu Cys Lys Thr Leu Arg Gln Lys Val Glu Ile Leu  
 165 170 175  
 Asn Glu Leu Tyr Gln Gln Lys Glu Met Ala Leu Gln Lys Lys Leu Ser  
 180 185 190  
 Gln Glu Glu Tyr Glu Arg Gln Glu Arg Glu His Arg Leu Ser Ala Ala  
 195 200 205  
 Asp Glu Lys Ala Val Ser Ala Ala Glu Glu Val Lys Thr Tyr Lys Arg  
 210 215 220  
 Arg Ile Glu Glu Met Glu Asp Glu Leu Gln Lys Thr Glu Arg Ser Phe  
 225 230 235 240  
 Lys Asn Gln Ile Ala Thr His Glu Lys Lys Ala His Glu Asn Trp Leu  
 245 250 255  
 Lys Ala Arg Ala Ala Glu Arg Ala Ile Ala Glu Glu Lys Arg Glu Ala  
 260 265 270  
 Ala Asn Leu Arg His Lys Leu Leu Xaa Leu Thr Gln Lys Met Ala Met  
 275 280 285  
 Leu Gln Glu Glu Pro Val Ile Val Lys Pro Met Pro Gly Lys Pro Asn  
 290 295 300  
 Thr Gln Asn Pro Pro Arg Arg Gly Pro Leu Ser Gln Asn Val Phe Trp  
 305 310 315 320  
 Pro Ile Pro Cys Glu Trp Trp Arg Met Leu Pro Ser Ile Asp Ser Gly  
 325 330 335  
 Ala Thr Arg Glu Thr Ser Leu Cys Tyr Ser Gln Ser Lys Arg Tyr Ala  
 340 345 350

&lt;210&gt; 964

&lt;211&gt; 553

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (375)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (438)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (549)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 964

Thr	Leu	Glu	Ala	Glu	Lys	Glu	Arg	Arg	Lys	Ser	Gly	Leu	Ser	Ser	Arg
1				5					10					15	

Val	Gln	Phe	Arg	Asn	Gln	Gly	Ser	Glu	Pro	Lys	Tyr	Thr	Gln	Glu	Leu
			20					25					30		

Thr	Leu	Lys	Arg	Gln	Lys	Gln	Lys	Val	Cys	Met	Glu	Glu	Thr	Leu	Trp
		35					40						45		

Leu	Gln	Asp	Asn	Ile	Arg	Asp	Lys	Leu	Arg	Pro	Ile	Pro	Ile	Thr	Ala
	50					55					60				

Ser	Val	Glu	Ile	Gln	Glu	Pro	Ser	Ser	Arg	Arg	Arg	Val	Asn	Ser	Leu
65					70					75					80

Pro	Glu	Val	Leu	Pro	Ile	Leu	Asn	Ser	Asp	Glu	Pro	Lys	Thr	Ala	His
				85					90					95	

Ile	Asp	Val	His	Phe	Leu	Lys	Glu	Gly	Cys	Gly	Asp	Asp	Asn	Val	Cys
		100						105					110		

Asn	Ser	Asn	Leu	Lys	Leu	Glu	Tyr	Lys	Phe	Cys	Thr	Arg	Glu	Gly	Asn
		115					120					125			

Gln	Asp	Lys	Phe	Xaa	Tyr	Leu	Pro	Ile	Gln	Lys	Gly	Val	Pro	Glu	Leu
	130					135					140				

Val	Leu	Lys	Asp	Gln	Lys	Asp	Ile	Ala	Leu	Glu	Ile	Thr	Val	Thr	Asn
145					150					155					160

Ser	Pro	Ser	Asn	Pro	Arg	Asn	Pro	Thr	Lys	Asp	Gly	Asp	Asp	Ala	His
			165					170						175	

Glu Ala Lys Leu Ile Ala Thr Phe Pro Asp Thr Leu Thr Tyr Ser Ala  
180 185 190

Tyr Arg Glu Leu Arg Ala Phe Pro Glu Lys Gln Leu Ser Cys Val Ala  
195 200 205

Asn Gln Asn Gly Ser Gln Ala Asp Cys Glu Leu Gly Asn Pro Phe Lys  
210 215 220

Arg Asn Ser Asn Val Thr Phe Tyr Leu Val Leu Ser Thr Thr Glu Val  
225 230 235 240

Thr Phe Asp Thr Pro Asp Leu Asp Ile Asn Leu Lys Leu Glu Thr Thr  
245 250 255

Ser Asn Gln Asp Asn Leu Ala Pro Ile Thr Ala Lys Ala Lys Val Val  
260 265 270

Ile Glu Leu Leu Leu Ser Val Ser Gly Val Ala Lys Pro Ser Gln Val  
275 280 285

Tyr Phe Gly Gly Thr Val Val Gly Glu Gln Ala Met Lys Ser Glu Asp  
290 295 300

Glu Val Gly Ser Leu Ile Glu Tyr Glu Phe Arg Val Ile Asn Leu Gly  
305 310 315 320

Lys Pro Leu Thr Asn Leu Gly Thr Ala Thr Leu Asn Ile Gln Trp Pro  
325 330 335

Lys Glu Ile Ser Asn Gly Lys Trp Leu Leu Tyr Leu Val Lys Val Glu  
340 345 350

Ser Lys Gly Leu Glu Lys Val Thr Cys Glu Pro Gln Lys Glu Ile Asn  
355 360 365

Ser Leu Asn Leu Thr Glu Xaa His Asn Ser Arg Lys Lys Arg Glu Ile  
370 375 380

Thr Glu Lys Gln Ile Asp Asp Asn Arg Lys Phe Ser Leu Phe Ala Glu  
385 390 395 400

Arg Lys Tyr Gln Thr Leu Asn Cys Ser Val Asn Val Asn Cys Val Asn  
405 410 415

Ile Arg Cys Pro Leu Arg Gly Leu Asp Ser Lys Ala Ser Leu Ile Leu  
420 425 430

Arg Ser Arg Leu Trp Xaa Ser Thr Phe Leu Glu Glu Tyr Ser Lys Leu  
435 440 445

Asn Tyr Leu Asp Ile Leu Met Arg Ala Phe Ile Asp Val Thr Ala Ala  
450 455 460

Ala Glu Asn Ile Arg Leu Pro Asn Ala Gly Thr Gln Val Arg Val Thr  
465 470 475 480

Val Phe Pro Ser Lys Thr Val Ala Gln Tyr Ser Gly Val Pro Trp Trp  
485 490 495

Ile Ile Leu Val Ala Ile Leu Ala Gly Ile Leu Met Leu Ala Leu Leu  
500 505 510

Val Phe Ile Leu Trp Lys Cys Gly Phe Phe Lys Arg Asn Lys Lys Asp  
515 520 525

His Tyr Asp Ala Thr Tyr His Lys Ala Glu Ile His Ala Gln Pro Ser  
530 535 540

Asp Lys Glu Arg Xaa Thr Ser Asp Ala  
545 550

<210> 965

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 965

Gln Tyr Gly Arg Ile Pro Gly Ser Thr His Ala Ser Ala Glu Pro Leu  
1 5 10 15

Glu Asn Pro Phe Lys Lys Met Lys Asn Asn Ile Val Asp Ala Ala Asn  
20 25 30

Asn His Ser Ala Pro Glu Val Leu Tyr Gly Ser Leu Leu Asn Gln Glu  
35 40 45

Glu Leu Lys Phe Ser Arg Asn Asp Leu Glu Phe Lys Tyr Pro Ala Gly  
50 55 60

His Gly Ser Ala Ser Xaa Ser Glu His Arg Ser Trp Ala Arg Glu Ser  
65 70 75 80

Lys Ser Phe Asn Val Leu Lys Gln Leu Leu Leu Ser Glu Asn Cys Val  
85 90 95

Arg Asp Leu Ser Pro His Arg Ser Asn Ser Val Ala Asp Ser Lys Lys  
100 105 110

Lys Gly His Lys Asn Asn Val Thr Asn Ser Lys Pro Glu Phe Ser Ile  
115 120 125

Ser Ser Leu Asn Gly Leu Met Tyr Ser Ser Thr Gln Pro Ser Ser Cys  
130 135 140

Met Asp Asn Arg Thr Phe Ser Tyr Pro Gly Val Val Lys Thr Pro Val  
145 150 155 160

Ser Pro Thr Phe Pro Glu His Leu Gly Cys Ala Gly Ser Arg Pro Glu  
165 170 175

Ser Gly Leu Leu Asn Gly Cys Ser Met Pro Ser Glu Lys Gly Pro Ile  
180 185 190

Lys Trp Val Ile Thr Asp Ala Glu Lys Met Ser Met Lys Ser Leu Ser  
195 200 205

Arg Leu Thr Lys Pro Pro His Thr Xaa Leu His Ala  
210 215 220

<210> 966

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 966

Trp Ile Pro Arg Ala Ala Gly Phe Gly Thr Arg Pro Leu Pro Gly Ala  
1 5 10 15

Ala Gly Gly Ala Ala Gly Cys Thr Gln Arg Arg Ser Arg Glu Leu Ala  
20 25 30

Ala Ala Ala Met Ser His Gln Thr Gly Ile Gln Ala Ser Glu Asp Val



35	40	45
Lys Glu Ile Phe Ala Arg Ala Arg Asn Gly Lys Tyr Arg Leu Leu Lys		
50	55	60
Ile Ser Ile Glu Asn Glu Gln Leu Val Ile Gly Ser Tyr Ser Gln Pro		
65	70	75
Ser Asp Ser Trp Asp Lys Asp Tyr Asp Ser Phe Val Leu Pro Leu Leu		
	85	90
Glu Asp Lys Gln Pro Cys Tyr Ile Leu Phe Arg Leu Asp Ser Gln Asn		
	100	105
Ala Gln Gly Tyr Glu Trp Ile Phe Ile Ala Trp Ser Pro Asp His Ser		
	115	120
His Val Arg Gln Lys Met Leu Tyr Ala Ala Thr Arg Ala Thr Leu Lys		
	130	135
Lys Glu Phe Gly Gly Gly His Ile Lys Asp Glu Val Phe Gly Thr Val		
145	150	155
Lys Glu Asp Val Ser Leu His Gly Tyr Lys Lys Tyr Leu Leu Ser Gln		
	165	170
Ser Ser Pro Ala Pro Leu Thr Ala Ala Glu Glu Glu Leu Arg Gln Ile		
	180	185
Lys Ile Asn Glu Val Gln Thr Asp Val Gly Val Asp Thr Lys His Gln		
	195	200
Thr Leu Gln Gly Val Ala Phe Pro Ile Ser Arg Glu Xaa Phe Gln Ala		
	210	215
Leu Glu Lys Leu Asn Asn Arg Gln Leu Asn Tyr Val Gln Leu Glu Ile		
225	230	235
Asp Ile Lys Asn Glu Ile Ile Ile Leu Ala Asn Thr Thr Asn Thr Glu		
	245	250
Leu Lys Asp Leu Pro Lys Arg Ile Pro Lys Asp Ser Ala Arg Tyr His		
	260	265
Phe Phe Leu Tyr Lys His Ser His Glu Gly Asp Tyr Leu Glu Ser Ile		
	275	280
Val Phe Ile Tyr Ser Met Pro Gly Tyr Thr Cys Ser Ile Arg Glu Arg		
	290	295
Met Leu Tyr Ser Ser Cys Lys Ser Arg Leu Leu Glu Ile Val Glu Arg		
		300

Arg	Lys	Lys	Asp	Lys	Ser	Ser	Arg	Pro	Pro	Leu	Thr	Pro	Ser	Leu	Pro
1				5					10					15	
Leu	Ser	Leu	Pro	Pro	Gly	Glu	Glu	Ala	Arg	Gly	Gly	Cys	Ser	Ala	Val
			20					25					30		
Gly	Ala	Ala	Pro	Pro	Ser	Pro	Gly	Arg	Pro	Gly	Pro	Pro	Pro	His	Ala
		35					40					45			
Ala	Pro	Met	His	Pro	Phe	Tyr	Thr	Arg	Ala	Ala	Thr	Met	Ile	Gly	Glu
	50					55					60				
Ile	Ala	Ala	Ala	Val	Ser	Phe	Ile	Ser	Lys	Phe	Leu	Arg	Thr	Lys	Gly
65					70					75					80
Leu	Thr	Ser	Glu	Arg	Gln	Leu	Gln	Thr	Phe	Ser	Gln	Ser	Leu	Gln	Glu
				85					90					95	
Leu	Leu	Ala	Glu	His	Tyr	Lys	His	His	Trp	Phe	Pro	Glu	Lys	Pro	Cys
			100					105					110		
Lys	Gly	Ser	Gly	Tyr	Arg	Cys	Ile	Arg	Ile	Asn	His	Lys	Met	Asp	Pro
		115					120					125			
Leu	Ile	Gly	Gln	Ala	Ala	Gln	Arg	Ile	Gly	Leu	Ser	Ser	Gln	Glu	Leu
130						135					140				

Phe Arg Leu Leu Pro Ser Glu Leu Thr Leu Trp Val Asp Pro Tyr Glu  
 145 150 155 160

Val Ser Tyr Arg Ile Gly Glu Asp Gly Ser Ile Cys Val Leu Tyr Glu  
 165 170 175

Ala Ser Pro Ala Gly Gly Ser Thr Gln Asn Ser Thr Asn Val Gln Met  
 180 185 190

Val Asp Ser Arg Ile Ser Cys Lys Glu Glu Leu Leu Leu Gly Arg Thr  
 195 200 205

Ser Pro Ser Lys Asn Tyr Asn Met Met Thr Val Ser Gly  
 210 215 220

<210> 968

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 968

Xaa Leu Thr Lys Gly Thr Lys Ala Gly Ser Ser Thr Ala Val Xaa Thr  
 1 5 10 15

Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Glu Phe  
 20 25 30

Asp Leu Cys Cys Ser Pro Cys Arg Arg Arg Leu Leu Gly Arg Glu Glu  
 35 40 45

Ala Gly Glu Glu Pro Thr Ser Pro Val Thr Gln Tyr Leu Gln Pro Arg  
 50 55 60

Ser Pro Glu Glu Cys Lys Met Phe Ala Cys Ala Lys Leu Ala Cys Thr  
 65 70 75 80

Pro Ser Leu Ile Arg Ala Gly Ser Arg Val Ala Tyr Arg Pro Ile Ser  
 85 90 95

Ala Ser Val Leu Ser Arg Pro Glu Ala Ser Arg Thr Gly Glu Gly Ser  
100 105 110

Thr Val Phe Asn Gly Ala Gln Asn Gly Val Ser Gln Leu Ile Gln Arg  
115 120 125

Glu Phe Gln Thr Ser Ala Ile Ser Arg Asp Ile Asp Thr Ala Ala Lys  
130 135 140

Phe Ile Gly Ala Gly Ala Ala Thr Val Gly Val Ala Gly Ser Gly Ala  
145 150 155 160

Gly Ile Gly Thr Val Phe Gly Ser Leu Ile Ile Gly Tyr Ala Arg Asn  
165 170 175

Pro Ser Leu Lys Gln Gln Leu Phe Ser Tyr Ala Ile Leu Gly Phe Ala  
180 185 190

Leu Ser Glu Ala Met Gly Leu Phe Cys Leu Met Val Ala Phe Leu Ile  
195 200 205

Leu Phe Ala Met  
210

<210> 969  
<211> 224  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (142)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (206)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (224)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 969

Tyr Leu Asp Ala Glu Lys Met Gly Gln Lys Ala Ser Gln Gln Leu Ala  
1 5 10 15

Leu Lys Asp Ser Lys Glu Val Pro Val Val Cys Glu Val Val Ser Glu  
20 25 30

Ala Ile Val His Ala Ala Gln Lys Leu Lys Glu Tyr Leu Gly Phe Glu  
35 40 45

Tyr Pro Pro Ser Lys Leu Cys Pro Ala Ala Asn Thr Leu Asn Glu Ile  
50 55 60

Phe Leu Ile His Phe Ile Thr Phe Cys Gln Glu Lys Gly Val Asp Glu  
65 70 75 80

Trp Leu Thr Thr Thr Lys Met Thr Lys His Gln Ala Phe Leu Phe Gly  
85 90 95

Ala Asp Trp Ile Trp Thr Phe Trp Gly Ser Asp Lys Gln Ile Lys Leu  
100 105 110

Gln Leu Ala Val Gln Thr Leu Gln Met Ser Ser Pro Pro Pro Val Glu  
115 120 125

Ser Lys Pro Cys Asp Leu Ser Asn Pro Glu Ser Xaa Val Xaa Glu Ser  
130 135 140

Ser Trp Lys Lys Ser Arg Phe Asp Lys Leu Glu Glu Phe Cys Asn Leu  
145 150 155 160

Ile Gly Glu Asp Cys Leu Gly Leu Phe Ile Ile Phe Gly Met Pro Gly  
165 170 175

Lys Pro Lys Asp Ile Arg Gly Val Val Leu Asp Ser Val Lys Ser Gln  
180 185 190

Met Val Arg Ser His Leu Pro Gly Gly Lys Ala Val Ala Xaa Phe Val  
195 200 205

Leu Glu Thr Glu Asp Cys Val Phe Ile Lys Glu Leu Leu Lys Ile Xaa  
210 215 220

&lt;210&gt; 970

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (166)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 970

Leu Gly Leu Ser Arg Val Asp Asp Ala Val Ala Ala Asn Thr Arg Gln  
 1 5 10 15

Cys Ala Gln Arg Arg Asp Arg Arg Gly Gly Glu Gly Arg Gly Gln Gly  
 20 25 30

Ile Glu Pro Ser Pro Ala Ser Ala Thr Pro Gly Thr Arg Gly Val Cys  
 35 40 45

Arg Met Pro Val Thr Arg Leu His Glu Gly Arg Phe His Leu Arg His  
 50 55 60

Arg His Arg His Gly Leu Trp Leu Ala Asp Val His Ser Glu Glu Val  
 65 70 75 80

Ser Ile Pro Phe Ala Val Glu Pro Pro Ser Gly Arg Gly Cys Arg Leu  
 85 90 95

Cys Gly Gln Leu Arg Gly Asp Glu Ser Gly Val Gly Glu Met Gln Gln  
 100 105 110

Pro Leu Ala Leu Pro Gly Asp Arg Ala Ala Pro Gln Arg Gln Glu His  
 115 120 125

Arg Ser Glu Lys Leu Gly Glu Leu Gln Gln Gly His Arg Gly Leu Gly  
 130 135 140

Ala Gly Gly Val Trp Asn Thr Ala Phe Met Pro Pro Asp Pro Arg Pro  
 145 150 155 160

Thr Leu Pro Thr Pro Xaa Gly Thr Pro Val Val Ser Ser Val Arg Met  
 165 170 175

Cys Gly Gln Ala  
 180

&lt;210&gt; 971

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (116)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (126)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 971  
Pro Arg Val Arg Pro Arg Val Leu Asp Leu Leu Cys Lys Asn Met Lys  
1 5 10 15

His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp Val Leu  
20 25 30

Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser  
35 40 45

Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser  
50 55 60

Gly Ala Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu  
65 70 75 80

Glu Trp Ile Gly Xaa Ile Tyr Tyr Ser Gly Xaa Thr Tyr Tyr Asn Pro  
85 90 95

Ser Leu Lys Ser Leu Val Xaa Ile Ser Xaa Asp Thr Ser Lys Asn Xaa  
100 105 110

Phe Ser Leu Xaa Leu Xaa Ser Val Thr Ala Ala Asp Thr Xaa Val Tyr  
115 120 125

Tyr Cys  
130

<210> 972  
<211> 210  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>



&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 972

Ala Gly Ser Ser Trp Lys Cys Arg Gly Cys Ser Leu Pro Xaa Leu Pro  
 1 5 10 15

Pro Pro Pro Ala Cys Ala Leu Leu Leu Pro Trp Pro Arg Thr Trp Val  
 20 25 30

Phe Pro Ser Pro Ala Xaa Gly Trp Arg Trp Leu Thr Arg Ser Arg Tyr  
 35 40 45

Pro Leu Thr Xaa Ser Arg Thr Ser Thr Arg Ser Ser Met Gly Met Ser  
 50 55 60

Leu Val Xaa Gly Pro Leu Gln Gly Xaa Leu Pro Cys Arg Arg Asp Pro  
 65 70 75 80

Arg Val Cys Pro Gly Thr Pro Ser Ser Gln Arg His Leu Pro Val Gly  
 85 90 95

Glu Val Val Lys Gln Ala Asp Val Val Leu Leu Gly Tyr Xaa Val Pro  
 100 105 110

Phe Ser Leu Ser Pro Asp Val Arg Arg Lys Asn Leu Glu Ile Tyr Glu  
 115 120 125

Ala Val Thr Ser Pro Gln Gly Pro Ala Met Thr Trp Ser Met Phe Ala  
 130 135 140

Val Gly Trp Met Glu Leu Lys Asp Ala Val Arg Ala Arg Gly Leu Leu  
 145 150 155 160

Asp Arg Ser Phe Ala Asn Met Ala Glu Pro Phe Lys Val Trp Thr Glu  
 165 170 175

Asn Ala Asp Gly Ser Gly Ala Val Asn Phe Leu Thr Gly Met Gly Gly  
 180 185 190

Phe Cys Arg Arg Trp Ser Ser Gly Ala Arg Gly Ser Gly Ser Pro Glu  
 195 200 205

Arg Val  
 210

&lt;210&gt; 973

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 973

Ser Arg Val Arg Gly Cys Ser Arg Ser Arg Gln Pro Gln Ala Arg Gly  
 1 5 10 15

Gly Arg Trp Ala Arg Asp Pro Thr Leu Val Val Met Glu Ala Gly Gly  
 20 25 30

Phe Leu Asp Ser Leu Ile Tyr Gly Ala Cys Val Val Phe Thr Leu Gly  
 35 40 45

Met Phe Ser Ala Gly Leu Ser Asp Leu Arg His Met Arg Met Thr Arg  
 50 55 60

Ser Val Asp Asn Val Gln Phe Leu Pro Phe Leu Thr Thr Glu Val Asn  
 65 70 75 80

Asn Leu Gly Trp Leu Ser Tyr Gly Ala Leu Lys Gly Asp Gly Ile Leu  
 85 90 95

Ile Val Val Asn Thr Val Gly Ala Ala Leu Gln Thr Leu Tyr Ile Leu  
 100 105 110

Ala Tyr Leu His Tyr Cys Pro Arg Lys Arg Val Val Leu Leu Gln Thr  
 115 120 125

Ala Thr Leu Leu Gly Val Leu Leu Leu Gly Tyr Gly Tyr Phe Trp Leu  
 130 135 140

Leu Val Pro Asn Pro Glu Ala Arg Leu Gln Gln Leu Gly Leu Phe Cys  
 145 150 155 160

Ser Val Phe Thr Ile Ser Met Tyr Leu Ser Pro Leu Ala Asp Leu Ala  
 165 170 175

Lys Val Ile Gln Thr Lys Ser Thr Gln Cys Leu Ser Tyr Pro Leu Thr  
 180 185 190

Ile Ala Thr Leu Leu Thr Ser Ala Ser Trp Cys Leu Tyr Gly Phe Arg  
 195 200 205

Leu Arg Asp Pro Tyr Ile Met Val Ser Asn Phe Pro Gly Ile Val Thr  
 210 215 220

Ser Phe Ile Arg Phe Trp Leu Phe Trp Lys Tyr Pro Gln Glu Gln Asp  
 225 230 235 240

Arg Asn Tyr Trp Leu Leu Gln Thr  
 245

<210> 974  
<211> 202  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 974  
Ser Xaa Leu Pro Phe Ile Lys Gly Asn Xaa Ser Trp Ser Phe His Arg  
1 5 10 15

Gly Gly Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe  
20 25 30

Gly Thr Arg Arg Glu Leu Val Ser Arg Arg Ala Gln Arg Thr Ala Thr  
35 40 45

Asp Ser Pro Gly His Pro Pro Thr Ala His Gly Xaa Gln Gln Ser Arg  
50 55 60

Lys Ala Arg Pro Gly Gln Arg Lys Pro Ser Arg Ala Gly Trp Arg Leu  
65 70 75 80

Arg Ala Ala Ala Pro Thr Gly Gln Arg Pro Pro His Val Pro Ala Pro  
85 90 95

Thr Pro Arg Pro Ser Gly Gln His Glu Ala Pro Gly Gly Arg Ala Ala  
100 105 110

Pro Ala Ala Ala Gly Ala Val His Arg Ala Cys Gly Arg Val Gln Met  
115 120 125

Gln Val Leu Pro Glu Gly Pro Lys Ile Arg Tyr Ser Asp Val Lys Lys  
130 135 140

Leu Glu Met Lys Pro Lys Tyr Pro His Cys Glu Glu Lys Met Val Ile  
 145 150 155 160

Ile Thr Thr Lys Ser Val Ser Arg Tyr Arg Gly Gln Glu His Cys Leu  
 165 170 175

His Pro Lys Leu Gln Ser Thr Lys Arg Phe Ile Lys Trp Tyr Asn Ala  
 180 185 190

Trp Asn Glu Lys Arg Arg Val Tyr Glu Glu  
 195 200

<210> 975

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 975

Leu Cys Leu Pro Phe Pro Thr Gly Glu Thr Pro Ser Leu Gly Phe Thr  
 1 5 10 15

Val Thr Leu Val Leu Leu Asn Ser Leu Ala Phe Leu Leu Met Ala Val  
 20 25 30

Ile Tyr Thr Lys Leu Tyr Cys Asn Leu Glu Lys Glu Asp Leu Ser Glu  
 35 40 45

Asn Ser Gln Ser Ser Met Ile Lys His Val Ala Trp Leu Ile Phe Thr  
 50 55 60

Asn Cys Ile Phe Phe Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu  
 65 70 75 80

Ile Thr Ala Ile Ser Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu  
 85 90 95

Ile Phe Phe Pro Leu Pro Ala Cys Leu Asn Pro Val Leu Tyr Val Phe  
 100 105 110

Phe Asn Pro Lys Phe Lys Glu Asp Trp Lys Leu Leu Lys Arg Arg Val  
 115 120 125

Thr Lys Lys Ser Gly Ser Val Ser Val Ser Ile Ser Ser Gln Gly Gly  
 130 135 140

Cys Leu Glu Gln Asp Phe Tyr Tyr Asp Cys Gly Met Tyr Ser His Leu  
145 150 155 160

Gln Gly Asn Leu Thr Val Cys Asp Cys Cys Glu Ser Phe Leu Leu Thr  
165 170 175

Lys Pro Val Ser Cys Lys His Leu Ile Lys Ser His Ser Cys Pro Ala  
180 185 190

Leu Ala Val Ala Ser Cys Gln Arg Pro Glu Gly Tyr Trp Ser Asp Cys  
195 200 205

Gly Thr Gln Xaa Ala His Ser Asp Tyr Ala Asp Glu Glu Asp Ser Phe  
210 215 220

Val Ser Asp Ser Ser Asp Gln Val Gln Ala Cys Gly Arg Ala Cys Phe  
225 230 235 240

Tyr Gln Ser Arg Gly Phe Pro Leu Val Arg Tyr Ala Tyr Asn Leu Pro  
245 250 255

Arg Val Lys Asp  
260

<210> 976

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 976

Arg Ser Arg Lys Gln Glu Ala Ala Cys Xaa Pro Gln Asp Leu Pro Gly  
1 5 10 15

Trp Gly Asn Trp Arg Leu Leu Gly Gly Gly Thr Val His Ala Lys Met  
20 25 30

Ala Val Ser Thr Glu Glu Leu Glu Ala Thr Val Gln Glu Val Leu Gly  
35 40 45

Arg Leu Lys Ser His Gln Phe Phe Gln Ser Thr Trp Asp Thr Val Ala  
50 55 60

Phe Ile Val Phe Leu Thr Phe Met Gly Thr Val Leu Leu Leu Leu Leu

65		70		75		80									
Leu	Val	Val	Ala	His	Cys	Cys	Cys	Cys	Ser	Ser	Pro	Gly	Pro	Arg	Arg
				85					90					95	
Glu	Ser	Pro	Arg	Lys	Glu	Arg	Pro	Lys	Gly	Val	Asp	Asn	Leu	Ala	Leu
			100					105					110		

Glu Pro

<210> 977

<211> 413

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 977

Thr	Pro	Pro	Thr	His	Gly	Pro	Thr	Ala	Asp	Gln	Pro	Met	Arg	Pro	Val
1				5					10					15	

Arg	Val	Pro	Glu	Arg	Gly	Pro	Val	His	Arg	Gly	Ala	Ala	Gly	Ala	His
			20					25					30		

Leu	Pro	Leu	Pro	Thr	Arg	Leu	Arg	Arg	Pro	Gln	Met	Arg	Glu	Ala	His
		35					40					45			

His	Cys	Gln	Leu	Arg	Gly	Gln	Arg	Leu	Xaa	Arg	Gly	Thr	Gly	Leu	Arg
	50					55					60				

Gln	Gly	Pro	Thr	Pro	Gly	Gln	His	Leu	Pro	Xaa	Gly	Gly	Pro	Asp	Lys
65					70					75					80

Asp	Asn	Gly	Ile	Leu	Leu	Tyr	Lys	Gly	Asp	Asn	Asp	Pro	Leu	Ala	Leu
			85						90						95

Glu Leu Tyr Gln Gly His Val Arg Leu Val Tyr Asp Ser Leu Ser Ser  
100 105 110

Pro Pro Thr Thr Val Tyr Ser Val Glu Thr Val Asn Xaa Gly Gln Phe  
115 120 125

His Ser Val Glu Leu Val Thr Leu Asn Gln Thr Leu Asn Leu Val Val  
130 135 140

Asp Lys Gly Thr Pro Lys Ser Leu Gly Lys Leu Gln Lys Gln Pro Ala  
145 150 155 160

Val Gly Ile Asn Ser Pro Leu Tyr Leu Gly Gly Ile Pro Thr Ser Thr  
165 170 175

Gly Leu Ser Ala Leu Arg Gln Gly Thr Asp Arg Pro Leu Gly Gly Phe  
180 185 190

His Gly Cys Ile His Glu Val Arg Ile Asn Asn Glu Leu Gln Asp Phe  
195 200 205

Lys Ala Leu Pro Pro Gln Ser Leu Gly Val Ser Pro Gly Cys Lys Ser  
210 215 220

Cys Thr Val Cys Lys His Gly Leu Cys Arg Ser Val Glu Lys Asp Ser  
225 230 235 240

Val Val Cys Glu Cys Arg Pro Gly Trp Thr Gly Pro Leu Cys Asp Gln  
245 250 255

Glu Ala Arg Asp Pro Cys Leu Gly His Arg Cys His His Gly Lys Cys  
260 265 270

Val Ala Thr Gly Thr Ser Tyr Met Cys Lys Cys Ala Glu Gly Tyr Gly  
275 280 285

Gly Asp Leu Cys Asp Asn Lys Asn Asp Ser Ala Asn Ala Cys Ser Ala  
290 295 300

Phe Lys Cys His His Gly Gln Cys His Ile Ser Asp Gln Gly Glu Pro  
305 310 315 320

Tyr Cys Leu Cys Gln Pro Gly Phe Ser Gly Glu His Cys Gln Gln Glu  
325 330 335

Asn Pro Cys Leu Gly Gln Val Val Arg Glu Val Ile Arg Arg Gln Lys  
340 345 350

Gly Tyr Ala Ser Cys Ala Thr Ala Ser Lys Val Pro Ile Met Glu Cys  
355 360 365

Arg Gly Gly Cys Gly Pro Gln Cys Cys Gln Pro Thr Arg Ser Lys Arg  
 370 375 380

Arg Lys Tyr Val Phe Gln Cys Thr Asp Gly Ser Ser Phe Val Glu Glu  
 385 390 395 400

Val Glu Arg His Leu Glu Cys Gly Cys Leu Ala Cys Ser  
 405 410

<210> 978  
 <211> 271  
 <212> PRT  
 <213> Homo sapiens

<400> 978  
 Thr Gln Arg Met Ser Gly Lys His Tyr Lys Gly Pro Glu Val Ser Cys  
 1 5 10 15

Cys Ile Lys Tyr Phe Ile Phe Gly Phe Asn Val Ile Phe Trp Phe Leu  
 20 25 30

Gly Ile Thr Phe Leu Gly Ile Gly Leu Trp Ala Trp Asn Glu Lys Gly  
 35 40 45

Val Leu Ser Asn Ile Ser Ser Ile Thr Asp Leu Gly Gly Phe Asp Pro  
 50 55 60

Val Trp Leu Phe Leu Val Val Gly Gly Val Met Phe Ile Leu Gly Phe  
 65 70 75 80

Ala Gly Cys Ile Gly Ala Leu Arg Glu Asn Thr Phe Leu Leu Lys Phe  
 85 90 95

Phe Ser Val Phe Leu Gly Ile Ile Phe Phe Leu Glu Leu Thr Ala Gly  
 100 105 110

Val Leu Ala Phe Val Phe Lys Asp Trp Ile Lys Asp Gln Leu Tyr Phe  
 115 120 125

Phe Ile Asn Asn Asn Ile Arg Ala Tyr Arg Asp Asp Ile Asp Leu Gln  
 130 135 140

Asn Leu Ile Asp Phe Thr Gln Glu Tyr Trp Gln Cys Cys Gly Ala Phe  
 145 150 155 160

Gly Ala Asp Asp Trp Asn Leu Asn Ile Tyr Phe Asn Cys Thr Asp Ser  
 165 170 175



Asn Ala Ser Arg Glu Arg Cys Gly Val Pro Phe Ser Cys Cys Thr Lys  
 180 185 190

Asp Pro Ala Glu Asp Val Ile Asn Thr Gln Cys Gly Tyr Asp Ala Arg  
 195 200 205

Gln Lys Pro Glu Val Asp Gln Gln Ile Val Ile Tyr Thr Lys Gly Cys  
 210 215 220

Val Pro Gln Phe Glu Lys Trp Leu Gln Asp Asn Leu Thr Ile Val Ala  
 225 230 235 240

Gly Ile Phe Ile Gly Ile Ala Leu Leu Gln Ile Phe Gly Ile Cys Leu  
 245 250 255

Ala Gln Asn Leu Val Ser Asp Ile Glu Ala Val Arg Ala Ser Trp  
 260 265 270

<210> 979

<211> 674

<212> PRT

<213> Homo sapiens

<400> 979

Pro Gly Arg Thr Gly Ala Ala Gly Pro Ala Gly Pro Ala Gly Pro Arg  
 1 5 10 15

Gly Ser Pro Gly Glu Arg Gly Glu Val Gly Pro Ala Gly Pro Asn Gly  
 20 25 30

Phe Ala Gly Pro Ala Gly Ala Ala Gly Gln Pro Gly Ala Lys Gly Glu  
 35 40 45

Arg Gly Ala Lys Gly Pro Lys Gly Glu Asn Gly Val Val Gly Pro Thr  
 50 55 60

Gly Pro Val Gly Ala Ala Gly Pro Ala Gly Pro Asn Gly Pro Pro Gly  
 65 70 75 80

Pro Ala Gly Ser Arg Gly Asp Gly Gly Pro Pro Gly Met Thr Gly Phe  
 85 90 95

Pro Gly Ala Ala Gly Arg Thr Gly Pro Pro Gly Pro Ser Gly Ile Ser  
 100 105 110

Gly Pro Pro Gly Pro Pro Gly Pro Ala Gly Lys Glu Gly Leu Arg Gly  
 115 120 125

Pro Arg Gly Asp Gln Gly Pro Val Gly Arg Thr Gly Glu Val Gly Ala

130	135	140
Val Gly Pro Pro Gly Phe Ala Gly Glu Lys Gly Pro Ser Gly Glu Ala		
145	150	155 160
Gly Thr Ala Gly Pro Pro Gly Thr Pro Gly Pro Gln Gly Leu Leu Gly		
	165	170 175
Ala Pro Gly Ile Leu Gly Leu Pro Gly Ser Arg Gly Glu Arg Gly Leu		
	180	185 190
Pro Gly Val Ala Gly Ala Val Gly Glu Pro Gly Pro Leu Gly Ile Ala		
	195	200 205
Gly Pro Pro Gly Ala Arg Gly Pro Pro Gly Ala Val Gly Ser Pro Gly		
	210	215 220
Val Asn Gly Ala Pro Gly Glu Ala Gly Arg Asp Gly Asn Pro Gly Asn		
	225	230 235 240
Asp Gly Pro Pro Gly Arg Asp Gly Gln Pro Gly His Lys Gly Glu Arg		
	245	250 255
Gly Tyr Pro Gly Asn Ile Gly Pro Val Gly Ala Ala Gly Ala Pro Gly		
	260	265 270
Pro His Gly Pro Val Gly Pro Ala Gly Lys His Gly Asn Arg Gly Glu		
	275	280 285
Thr Gly Pro Ser Gly Pro Val Gly Pro Ala Gly Ala Val Gly Pro Arg		
	290	295 300
Gly Pro Ser Gly Pro Gln Gly Ile Arg Gly Asp Lys Gly Glu Pro Gly		
	305	310 315 320
Glu Lys Gly Pro Arg Gly Leu Pro Gly Leu Lys Gly His Asn Gly Leu		
	325	330 335
Gln Gly Leu Pro Gly Ile Ala Gly His His Gly Asp Gln Gly Ala Pro		
	340	345 350
Gly Ser Val Gly Pro Ala Gly Pro Arg Gly Pro Ala Gly Pro Ser Gly		
	355	360 365
Pro Ala Gly Lys Asp Gly Arg Thr Gly His Pro Gly Thr Val Gly Pro		
	370	375 380
Ala Gly Ile Arg Gly Pro Gln Gly His Gln Gly Pro Ala Gly Pro Pro		
	385	390 395 400
Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Val Ser Gly Gly Gly Tyr		

405	410	415
Asp Phe Gly Tyr Asp Gly Asp Phe Tyr Arg Ala Asp Gln Pro Arg Ser		
420	425	430
Ala Pro Ser Leu Arg Pro Lys Asp Tyr Glu Val Asp Ala Thr Leu Lys		
435	440	445
Ser Leu Asn Asn Gln Ile Glu Thr Leu Leu Thr Pro Glu Gly Ser Arg		
450	455	460
Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu Arg Leu Ser His Pro Glu		
465	470	475
Trp Ser Ser Gly Tyr Tyr Trp Ile Asp Pro Asn Gln Gly Cys Thr Met		
485	490	495
Asp Ala Ile Lys Val Tyr Cys Asp Phe Ser Thr Gly Glu Thr Cys Ile		
500	505	510
Arg Ala Gln Pro Glu Asn Ile Pro Ala Lys Asn Trp Tyr Arg Ser Ser		
515	520	525
Lys Asp Lys Lys His Val Trp Leu Gly Glu Thr Ile Asn Ala Gly Ser		
530	535	540
Gln Phe Glu Tyr Asn Val Glu Gly Val Thr Ser Lys Glu Met Ala Thr		
545	550	555
Gln Leu Ala Phe Met Arg Leu Leu Ala Asn Tyr Ala Ser Gln Asn Ile		
565	570	575
Thr Tyr His Cys Lys Asn Ser Ile Ala Tyr Met Asp Glu Glu Thr Gly		
580	585	590
Asn Leu Lys Lys Ala Val Ile Leu Gln Gly Ser Asn Asp Val Glu Leu		
595	600	605
Val Ala Glu Gly Asn Ser Arg Phe Thr Tyr Thr Val Leu Val Asp Gly		
610	615	620
Cys Ser Lys Lys Thr Asn Glu Trp Gly Lys Thr Ile Ile Glu Tyr Lys		
625	630	635
Thr Asn Lys Pro Ser Arg Leu Pro Phe Leu Asp Ile Ala Pro Leu Asp		
645	650	655
Ile Gly Gly Ala Asp Gln Glu Phe Phe Val Asp Ile Gly Pro Val Cys		
660	665	670
Phe Lys		

<210> 980  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 980

Cys	Pro	Leu	Cys	Ser	Ala	Ala	Gly	Ser	Arg	Arg	Thr	Ala	Gly	Arg	Met
1				5					10					15	
Thr	Gln	Asn	Thr	Val	Ile	Val	Asn	Gly	Val	Ala	Met	Ala	Ser	Arg	Pro
				20				25					30		
Ser	Gln	Pro	Thr	His	Val	Asn	Val	His	Ile	His	Gln	Glu	Ser	Ala	Leu
		35					40					45			
Thr	Gln	Leu	Leu	Lys	Ala	Gly	Gly	Ser	Leu	Lys	Lys	Phe	Leu	Phe	His
		50				55					60				
Pro	Gly	Asp	Thr	Val	Pro	Ser	Thr	Ala	Arg	Ile	Gly	Tyr	Glu	Gln	Leu
65						70				75					80
Ala	Leu	Gly	Val	Thr	Gln	Ile	Leu	Leu	Gly	Val	Val	Ser	Cys	Val	Leu
					85				90					95	
Gly	Val	Cys	Leu	Ser	Leu	Gly	Pro	Trp	Thr	Val	Leu	Ser	Ala	Ser	Ala
		100						105					110		
Val	Pro	Ser	Gly	Arg	Gly	Leu	Trp								
		115					120								

<210> 981  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 981

Ile	Pro	Gly	Ser	Tyr	Leu	Arg	Ile	Val	Tyr	Lys	Thr	Thr	Cys	Asn	Pro
1				5						10				15	
Phe	Met	Lys	Asn	Val	Phe	Lys	Tyr	Cys	Phe	Leu	Leu	Leu	Cys	Ser	Ala
			20					25					30		
Leu	Ser	Leu	Val	Leu	Pro	Leu	Ser	Pro	Glu	Cys	Ser	Ile	Ile	Tyr	Arg
		35					40					45			

Leu Tyr Ile Thr Thr Ser Ile Ala Phe Gly Gly Lys Ser Arg Phe Ser  
50 55 60

Cys Asn Phe Pro Ala Val Lys Met Leu Pro Cys Ile  
65 70 75

<210> 982  
<211> 208  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (180)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (192)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (193)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (194)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 982

Xaa Ser Phe Xaa Thr Gln Pro Ser Xaa Ser Thr Thr Thr Ser Pro Leu  
1 5 10 15

Trp Ala Asn Thr Val Thr Leu Ala Gly Gly Lys Leu His Ser Lys Gly  
20 25 30

Leu Lys Tyr Phe His His Phe Thr Leu Ser Leu Cys Gly Asn Gln Gly  
35 40 45

Arg Lys Met Ser Val Cys Thr Asp Asn Val Thr Asp Leu Arg Ile Pro  
50 55 60

Glu Gly Glu Ser Gly Phe Ser Lys Ser Ile Thr Ala Tyr Val Cys Gln  
65 70 75 80

Ala Val Ile Ile Pro Pro Glu Val Thr Gly Tyr Lys Ala Gly Val Ser  
85 90 95

Ser Gln Pro Val Ser Leu Ala Asp Arg Leu Ile Gly Val Thr Thr Asp  
100 105 110

Met Thr Leu Asp Gly Ile Thr Ser Pro Ala Glu Leu Phe His Leu Glu  
115 120 125

Ser Leu Gly Ile Pro Asp Val Ile Phe Phe Tyr Arg Ser Asn Asp Val  
130 135 140

Thr Gln Ser Cys Ser Ser Gly Arg Ser Thr Thr Ile Arg Val Arg Cys  
145 150 155 160

Ser Pro Gln Lys Thr Val Pro Gly Ser Leu Leu Leu Pro Gly Thr Cys  
165 170 175

Ser Asp Gly Xaa Cys Asp Gly Cys Asn Phe His Phe Leu Trp Glu Xaa  
180 185 190

Xaa Xaa Xaa Ala Arg Ser Ala Xaa Trp Leu Thr Thr Met Leu Ser Ser  
195 200 205

<210> 983  
<211> 261  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (259)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (260)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 983  
Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg Glu Tyr Tyr  
1 5 10 15  
Ser Glu Ala Asp Ala Ser His Cys Ile Gln Gln Ile Leu Glu Ala Val  
20 25 30  
Leu His Cys His Gln Met Gly Val Val His Arg Asp Leu Lys Pro Glu  
35 40 45  
Asn Leu Leu Leu Ala Ser Lys Ser Lys Gly Ala Ala Val Lys Leu Ala  
50 55 60  
Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Asp Gln Gln Ala Trp Phe  
65 70 75 80  
Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Xaa Xaa Val Leu Arg Lys  
85 90 95  
Asp Pro Tyr Gly Lys Pro Val Asp Met Trp Ala Cys Gly Val Ile Leu  
100 105 110  
Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp Glu Asp Gln His  
115 120 125

Arg Leu Tyr Gln Gln Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro  
130 135 140

Glu Trp Asp Thr Val Thr Pro Glu Ala Lys Asp Leu Ile Asn Lys Met  
145 150 155 160

Leu Thr Ile Asn Pro Ala Lys Arg Ile Thr Ala Ser Glu Ala Leu Lys  
165 170 175

His Pro Trp Ile Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg  
180 185 190

Gln Glu Thr Val Asp Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu  
195 200 205

Lys Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser Ala  
210 215 220

Ala Lys Ser Leu Leu Lys Lys Pro Asp Gly Val Lys Glu Ser Thr Glu  
225 230 235 240

Ser Ser Asn Thr Thr Ile Glu Asp Glu Phe Ser Leu Asp Leu Thr Arg  
245 250 255

Leu Thr Xaa Xaa Gly  
260

<210> 984

<211> 283

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 984

Ser Thr His Ala Ser Gly Arg Met Ala Ala Glu Gly Trp Ile Trp Arg  
1 5 10 15

Trp Gly Trp Gly Arg Arg Cys Leu Gly Arg Pro Gly Leu Leu Gly Pro  
20 25 30



Gly Pro Gly Pro Thr Thr Pro Leu Phe Leu Leu Leu Leu Leu Gly Ser  
35 40 45

Val Thr Ala Asp Ile Thr Asp Gly Asn Ser Glu His Leu Lys Arg Glu  
50 55 60

His Ser Leu Ile Lys Pro Tyr Gln Gly Val Gly Ser Ser Ser Met Pro  
65 70 75 80

Leu Trp Asp Phe Gln Gly Ser Thr Met Leu Thr Ser Gln Tyr Val Arg  
85 90 95

Leu Thr Pro Asp Glu Arg Xaa Lys Glu Gly Ser Ile Trp Asn His Gln  
100 105 110

Pro Cys Phe Leu Lys Asp Trp Glu Met His Val His Phe Lys Val His  
115 120 125

Gly Thr Gly Lys Lys Asn Leu His Gly Asp Gly Ile Ala Leu Trp Tyr  
130 135 140

Thr Arg Asp Arg Leu Val Pro Gly Pro Val Phe Gly Ser Lys Asp Asn  
145 150 155 160

Phe His Gly Leu Ala Ile Phe Leu Asp Thr Tyr Pro Asn Asp Glu Thr  
165 170 175

Thr Glu Arg Val Phe Pro Tyr Ile Ser Val Met Val Asn Asn Gly Ser  
180 185 190

Leu Ser Tyr Asp His Ser Lys Asp Gly Arg Trp Thr Glu Leu Ala Gly  
195 200 205

Cys Thr Ala Asp Phe Arg Asn Arg Asp His Asp Thr Phe Leu Ala Val  
210 215 220

Arg Tyr Ser Arg Gly Arg Leu Thr Val Met Thr Asp Leu Glu Asp Lys  
225 230 235 240

Asn Glu Trp Lys Asn Cys Ile Asp Ile Thr Gly Val Arg Leu Pro Thr  
245 250 255

Gly Tyr Tyr Phe Gly Ala Ser Ala Gly Thr Gly Xaa Leu Ser Asp Asn  
260 265 270

His Asp Ile Ile Ser Met Lys Ala Val Pro Ser  
275 280

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 985

Ala Arg Gly Arg Ala Glu Val Leu Gly Arg Ala Val Glu Pro Pro Pro  
1 5 10 15

Gly Arg Cys Trp Ser Thr Pro Pro Val Ala Pro Pro Ala Arg Ser Ala  
20 25 30

Ser Ala Ala Ala Met Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp  
35 40 45

Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr  
50 55 60

Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn  
65 70 75 80

Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp  
85 90 95

Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr  
100 105 110

Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile  
115 120 125

Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu  
130 135 140

&lt;210&gt; 986

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 986

Ile Phe Val Cys Leu Cys Val Cys Leu Ser Cys Val Ile Leu Leu Gly  
1 5 10 15

Ala Ser Ala Asn Ser Leu Thr Val Val Pro Ser Leu Thr Leu Pro Val  
20 25 30

His His Leu Arg Arg Leu Asp Pro Ser Leu Thr Ser Pro Phe Leu Lys  
35 40 45

Pro Val Ser Phe Ser Leu Leu Pro Asn Trp Leu Trp Leu Phe Leu Gln  
 50 55 60

Pro Phe His Ser Arg Ala Ile Phe Ala Lys Glu  
 65 70 75

<210> 987

<211> 332

<212> PRT

<213> Homo sapiens

<400> 987

Arg Thr Arg Gly Arg Thr Arg Gly Arg Thr Arg Gly Arg Val Ala Trp  
 1 5 10 15

Trp Leu Arg Leu Ser Val Arg Pro Pro Ala Gly Ala Ile Met Ala Asp  
 20 25 30

Ala Ala Ser Gln Val Leu Leu Gly Ser Gly Leu Thr Ile Leu Ser Gln  
 35 40 45

Pro Leu Met Tyr Val Lys Val Leu Ile Gln Val Gly Tyr Glu Pro Leu  
 50 55 60

Pro Pro Thr Ile Gly Arg Asn Ile Phe Gly Arg Gln Val Cys Gln Leu  
 65 70 75 80

Pro Gly Leu Phe Ser Tyr Ala Gln His Ile Ala Ser Ile Asp Gly Arg  
 85 90 95

Arg Gly Leu Phe Thr Gly Leu Thr Pro Arg Leu Cys Ser Gly Val Leu  
 100 105 110

Gly Thr Val Val His Gly Lys Val Leu Gln His Tyr Gln Glu Ser Asp  
 115 120 125

Lys Gly Glu Glu Leu Gly Pro Gly Asn Val Gln Lys Glu Val Ser Ser  
 130 135 140

Ser Phe Asp His Val Ile Lys Glu Thr Thr Arg Glu Met Ile Ala Arg  
 145 150 155 160

Ser Ala Ala Thr Leu Ile Thr His Pro Phe His Val Ile Thr Leu Arg  
 165 170 175

Ser Met Val Gln Phe Ile Gly Arg Glu Ser Lys Tyr Cys Gly Leu Cys  
 180 185 190

Asp Ser Ile Ile Thr Ile Tyr Arg Glu Glu Gly Ile Leu Gly Phe Phe  
195 200 205

Ala Gly Leu Val Pro Arg Leu Leu Gly Asp Ile Leu Ser Leu Trp Leu  
210 215 220

Cys Asn Ser Leu Ala Tyr Leu Val Asn Thr Tyr Ala Leu Asp Ser Gly  
225 230 235 240

Val Ser Thr Met Asn Glu Met Lys Ser Tyr Ser Gln Ala Val Thr Gly  
245 250 255

Phe Phe Ala Ser Met Leu Thr Tyr Pro Phe Val Leu Val Ser Asn Leu  
260 265 270

Met Ala Val Asn Asn Cys Gly Leu Ala Gly Gly Cys Pro Pro Tyr Ser  
275 280 285

Pro Ile Tyr Thr Ser Trp Ile Asp Cys Trp Cys Met Leu Gln Lys Glu  
290 295 300

Gly Asn Met Ser Arg Gly Asn Ser Leu Phe Phe Arg Lys Val Pro Phe  
305 310 315 320

Gly Lys Thr Tyr Cys Cys Asp Leu Lys Met Leu Ile  
325 330

<210> 988

<211> 909

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (632)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (851)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 988

Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly
1				5					10					15	

Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Xaa
			20						25					30	

Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Xaa	Lys	Lys	Ala	Glu	Gly	Xaa	Xaa
		35						40					45		

Asn	Gln	Gly	Xaa	Lys	Ala	Glu	Gly	Ala	Xaa	Asn	Gln	Gly	Xaa	Lys	Ala
		50					55					60			

Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln
	65					70					75				80

Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly
					85					90					95

Ala Gln Asn Gln Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln Gly Lys  
100 105 110

Lys Ala Glu Gly Ala Gln Asn Gln Gly Lys Lys Val Xaa Gly Ala Gln  
115 120 125

Asn Gln Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln Gly Lys Lys Ala  
130 135 140

Glu Gly Ala Gln Asn Gln Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln  
145 150 155 160

Gly Gln Lys Gly Glu Gly Ala Gln Asn Gln Gly Lys Lys Thr Glu Gly  
165 170 175

Ala Gln Gly Lys Lys Ala Glu Arg Ser Pro Asn Gln Gly Lys Lys Gly  
180 185 190

Glu Gly Ala Pro Ile Gln Gly Lys Lys Ala Asp Ser Val Ala Asn Gln  
195 200 205

Gly Thr Lys Val Glu Gly Ile Thr Asn Gln Gly Lys Lys Ala Glu Gly  
210 215 220

Ser Pro Ser Glu Gly Lys Lys Ala Glu Gly Ser Pro Asn Gln Gly Lys  
225 230 235 240

Lys Ala Asp Ala Ala Ala Asn Gln Gly Lys Lys Thr Glu Ser Ala Ser  
245 250 255

Val Gln Gly Arg Asn Thr Asp Val Ala Gln Ser Pro Glu Ala Pro Lys  
260 265 270

Gln Glu Ala Pro Ala Lys Lys Lys Ser Gly Ser Lys Lys Lys Gly Glu  
275 280 285

Pro Gly Pro Pro Asp Ala Asp Gly Pro Leu Tyr Leu Pro Tyr Lys Thr  
290 295 300

Leu Val Ser Thr Val Gly Ser Met Val Phe Asn Glu Gly Glu Ala Gln  
305 310 315 320

Arg Leu Ile Glu Ile Leu Ser Glu Lys Ala Gly Ile Ile Gln Asp Thr  
325 330 335

Trp His Lys Ala Thr Gln Lys Gly Asp Pro Val Ala Ile Leu Lys Arg  
340 345 350

Gln Leu Glu Glu Lys Glu Lys Leu Leu Ala Thr Glu Gln Glu Asp Ala  
355 360 365

Ala Val Ala Lys Ser Lys Leu Arg Glu Leu Asn Lys Glu Met Ala Ala  
370 375 380

Glu Lys Ala Lys Ala Ala Ala Gly Glu Ala Lys Val Lys Lys Gln Leu  
385 390 395 400

Val Ala Arg Glu Gln Glu Ile Thr Ala Val Gln Ala Arg Met Gln Ala  
405 410 415

Ser Tyr Arg Glu His Val Lys Glu Val Gln Gln Leu Gln Gly Lys Ile  
420 425 430

Arg Thr Leu Gln Glu Gln Leu Glu Asn Gly Pro Asn Thr Gln Leu Ala  
435 440 445

Arg Leu Gln Gln Glu Asn Ser Ile Leu Arg Asp Ala Leu Asn Gln Ala  
450 455 460

Thr Ser Gln Val Glu Ser Lys Gln Asn Ala Glu Leu Ala Lys Leu Arg  
465 470 475 480

Gln Glu Leu Ser Lys Val Ser Lys Glu Leu Val Glu Lys Ser Glu Ala  
485 490 495

Val Arg Gln Asp Glu Gln Gln Arg Lys Ala Leu Glu Ala Lys Ala Ala  
500 505 510

Ala Phe Glu Lys Gln Val Leu Gln Leu Gln Ala Ser His Arg Glu Ser  
515 520 525

Glu Glu Ala Leu Gln Lys Arg Leu Asp Glu Val Ser Arg Glu Leu Cys  
530 535 540

His Thr Gln Ser Ser His Ala Ser Leu Arg Ala Asp Ala Glu Lys Ala  
545 550 555 560

Gln Glu Gln Gln Gln Gln Met Ala Glu Leu His Ser Lys Leu Gln Ser  
565 570 575

Ser Glu Ala Glu Val Arg Ser Lys Cys Glu Glu Leu Ser Gly Leu His  
580 585 590

Gly Gln Leu Gln Glu Ala Arg Ala Glu Asn Ser Gln Leu Thr Glu Arg  
595 600 605

Ile Arg Ser Ile Glu Ala Leu Leu Glu Ala Gly Gln Ala Arg Asp Ala  
610 615 620

Gln Asp Val Gln Ala Ser Gln Xaa Glu Ala Asp Gln Gln Gln Thr Arg  
625 630 635 640

Leu Lys Glu Leu Glu Ser Gln Val Ser Gly Leu Glu Lys Glu Ala Ile  
 645 650 655

Glu Leu Arg Glu Ala Val Glu Gln Gln Lys Val Lys Asn Asn Asp Leu  
 660 665 670

Arg Glu Lys Asn Trp Lys Ala Met Glu Ala Leu Ala Thr Ala Glu Gln  
 675 680 685

Ala Cys Lys Glu Lys Leu His Ser Leu Thr Gln Ala Lys Glu Glu Ser  
 690 695 700

Glu Lys Gln Leu Cys Leu Ile Glu Ala Gln Thr Met Glu Ala Leu Leu  
 705 710 715 720

Ala Leu Leu Pro Glu Leu Ser Val Leu Ala Gln Gln Asn Tyr Thr Glu  
 725 730 735

Trp Leu Gln Asp Leu Lys Glu Lys Gly Pro Thr Leu Leu Lys His Pro  
 740 745 750

Pro Ala Pro Ala Glu Pro Ser Ser Asp Leu Ala Ser Lys Leu Arg Glu  
 755 760 765

Ala Glu Glu Thr Gln Ser Thr Leu Gln Ala Glu Cys Asp Gln Tyr Arg  
 770 775 780

Ser Ile Leu Ala Glu Thr Glu Gly Met Leu Arg Asp Leu Gln Lys Ser  
 785 790 795 800

Val Glu Glu Glu Glu Gln Val Trp Arg Ala Lys Val Gly Ala Ala Glu  
 805 810 815

Glu Glu Leu Gln Lys Ser Arg Val Thr Val Lys His Leu Glu Glu Ile  
 820 825 830

Val Glu Lys Leu Lys Gly Glu Leu Glu Ser Ser Asp Gln Val Arg Glu  
 835 840 845

His Thr Xaa His Leu Glu Ala Glu Leu Glu Lys His Met Ala Ala Ala  
 850 855 860

Ser Ala Glu Cys Gln Asn Tyr Ala Lys Glu Val Ala Gly Leu Arg Gln  
 865 870 875 880

Leu Leu Leu Glu Ser Gln Ser Gln Leu Asp Ala Ala Lys Ser Glu Ala  
 885 890 895

Arg Asn Arg Ala Met Ser Leu Pro Trp Ser Gly Ser Ser  
 900 905



<210> 989  
<211> 100  
<212> PRT  
<213> Homo sapiens

<400> 989

Trp Cys Ser Arg Ala Val Pro Pro Pro Ser Leu Leu Pro Ala Ser Thr  
1 5 10 15  
Ser Pro Pro Arg Ser Val Pro Pro Pro Ser Phe Ser Leu Ser Leu Lys  
20 25 30  
Ser Val Ser Phe Gly Ser Pro Arg Ala Ser Leu Pro Arg Pro Ser Trp  
35 40 45  
Met Arg Pro Pro Ser Pro Lys Pro Ala Cys Phe Ala Val Ser Pro Gly  
50 55 60  
Ser Trp Lys Leu Ala Gly Ala Arg Gly Trp Arg Gly His Gly Gly Val  
65 70 75 80  
Gly Glu Gly Ser Leu Pro Phe Leu Val Arg Ser Ile Ile Val Asn Gly  
85 90 95  
Cys Thr Leu Phe  
100

<210> 990  
<211> 214  
<212> PRT  
<213> Homo sapiens

<400> 990

Leu Arg Ile Glu Tyr Ile Asp Asn Gly Cys Val Ile Asn Gly His Leu  
1 5 10 15  
Asp Phe Pro Ser Thr Thr Pro Leu Ser Gly Met Glu Ser Arg Asn Gly  
20 25 30  
Gln Cys Leu Thr Gly Thr Asn Gly Ile Ser Ser Gly Leu Ala Pro Gly  
35 40 45  
Gln Pro Phe Pro Ser Ser Gln Gly Ser Leu Cys Ile Ser Gly Thr Glu  
50 55 60  
Glu Pro Glu Lys Thr Leu Arg Ala Asn Pro Glu Leu Cys Gly Ser Leu

65	70	75	80
His Leu Asn Gly Ser Pro Ser Ser Cys Ile Ala Ser Arg Pro Ser Trp			
	85	90	95
Val Glu Asp Ile Gly Asp Asn Leu Tyr Tyr Gly His Tyr His Gly Phe			
	100	105	110
Gly Asp Thr Ala Glu Ser Met Pro Arg Thr Glu Gln Cys Gly Arg Ala			
	115	120	125
Phe Gln Val Arg Glu Gly Ala Gly Ala Val Arg Gln Cys Arg Ala Gly			
	130	135	140
His His Ala Pro Ala Pro Arg Leu Leu Glu Thr Leu Thr Trp Leu Ser			
145	150	155	160
Glu Thr Gln Glu Ser Phe Leu Val Ala Ser Ser Glu Tyr Pro Cys Ser			
	165	170	175
Ser Asn Leu Asn Glu Cys His Asn Leu Tyr Phe Phe Tyr Ile Leu Gln			
	180	185	190
Leu Ser Glu Lys Val Asn Phe Asp Lys Phe Pro Ala Thr Ala Cys Leu			
	195	200	205
Cys Met Ser Arg Ala Tyr			
210			

&lt;210&gt; 991

&lt;211&gt; 263

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 991

Gly Pro Val Gly Pro Ala Gly Thr Arg Arg Ser His Ala Leu Gly Pro			
1	5	10	15
Arg Pro Gly Ala Arg Ser Ser Phe Arg Leu Arg Cys Glu Leu Arg Arg			
	20	25	30
Cys Met Cys Gly Asn Asn Met Ser Thr Pro Leu Pro Ala Ile Val Pro			
	35	40	45
Ala Ala Arg Lys Ala Thr Ala Ala Val Ile Phe Leu His Gly Leu Gly			
	50	55	60
Asp Thr Gly His Gly Trp Ala Glu Ala Phe Ala Gly Ile Arg Ser Ser			
65	70	75	80

His Ile Lys Tyr Ile Cys Pro His Ala Pro Val Arg Pro Val Thr Leu  
                     85                    90                    95  
 Asn Met Asn Val Ala Met Pro Ser Trp Phe Asp Ile Ile Gly Leu Ser  
                     100                    105                    110  
 Pro Asp Ser Gln Glu Asp Glu Ser Gly Ile Lys Gln Ala Ala Glu Asn  
                     115                    120                    125  
 Ile Lys Ala Leu Ile Asp Gln Glu Val Lys Asn Gly Ile Pro Ser Asn  
                     130                    135                    140  
 Arg Ile Ile Leu Gly Gly Phe Ser Gln Gly Gly Ala Leu Ser Leu Tyr  
 145                    150                    155                    160  
 Thr Ala Leu Thr Thr Gln Gln Lys Leu Ala Gly Val Thr Ala Leu Ser  
                     165                    170                    175  
 Cys Trp Leu Pro Leu Arg Ala Ser Phe Pro Gln Gly Pro Ile Gly Gly  
                     180                    185                    190  
 Ala Asn Arg Asp Ile Ser Ile Leu Gln Cys His Gly Asp Cys Asp Pro  
                     195                    200                    205  
 Leu Val Pro Leu Met Phe Gly Ser Leu Thr Val Glu Lys Leu Lys Thr  
                     210                    215                    220  
 Leu Val Asn Pro Ala Asn Val Thr Phe Lys Thr Tyr Glu Gly Met Met  
 225                    230                    235                    240  
 His Ser Ser Cys Gln Gln Glu Met Met Asp Val Lys Gln Phe Ile Asp  
                     245                    250                    255  
 Lys Leu Leu Pro Pro Ile Asp  
                     260

&lt;210&gt; 992

&lt;211&gt; 256

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (229)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 992

Val Pro Arg Arg Val Leu Glu Pro Leu Leu Gln Arg Ile His Glu Glu

1	5	10	15
Glu Ser Ala Val Val Cys Pro Val Ile Asp Val Ile Asp Trp Asn Thr	20	25	30
Phe Glu Tyr Leu Gly Asn Ser Gly Glu Pro Gln Ile Gly Gly Phe Asp	35	40	45
Trp Arg Leu Val Phe Thr Trp His Thr Val Pro Glu Arg Glu Arg Ile	50	55	60
Arg Met Gln Ser Pro Val Asp Val Ile Arg Ser Pro Thr Met Ala Gly	65	70	75
Gly Leu Phe Ala Val Ser Lys Lys Tyr Phe Glu Tyr Leu Gly Ser Tyr	85	90	95
Asp Thr Gly Met Glu Val Trp Gly Gly Glu Asn Leu Glu Phe Ser Phe	100	105	110
Arg Ile Trp Gln Cys Gly Gly Val Leu Glu Thr His Pro Cys Ser His	115	120	125
Val Gly His Val Phe Pro Lys Gln Ala Pro Tyr Ser Arg Asn Lys Ala	130	135	140
Leu Ala Asn Ser Val Arg Ala Ala Glu Val Trp Met Asp Glu Phe Lys	145	150	155
Glu Leu Tyr Tyr His Arg Asn Pro Arg Ala Arg Leu Glu Pro Phe Gly	165	170	175
Asp Val Thr Glu Arg Lys Gln Leu Arg Asp Lys Leu Gln Cys Lys Asp	180	185	190
Phe Lys Trp Phe Leu Glu Thr Val Tyr Pro Glu Leu His Val Pro Glu	195	200	205
Asp Arg Pro Gly Phe Phe Gly Met Leu Gln Asn Lys Gly Leu Thr Asp	210	215	220
Tyr Cys Phe Asp Xaa Asn Pro Pro Asp Glu Asn Gln Ile Val Gly His	225	230	235
Gln Val Ile Leu Tyr Leu Cys His Gly Met Gly Gln Asn Asp Leu Val	245	250	255

<210> 993  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 993  
Val Val Trp Ser Arg Val Cys Gly Phe Ser Gly Pro Ile Ile Met Ala  
1 5 10 15  
Ala Ser Glu Ser Glu Glu Ser His Arg Ala Val Gly Glu Leu Leu Leu  
20 25 30  
Pro Ser Pro Ser Pro Phe Val Ala Pro Thr Leu Ala Ala Tyr Phe Cys  
35 40 45  
Ser Ser Ala Gly Glu Ser Val Trp Ala Ser Ser Ser Pro Ser Leu Ser  
50 55 60  
Pro Cys Tyr Phe Met Gly  
65 70

<210> 994  
<211> 220  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 994  
Asp Tyr Ala Xaa Thr Pro Gln Gly Leu Cys Tyr Asp Val Ala Cys Thr  
1 5 10 15  
Arg Lys Leu Gly Pro Leu Glu Gly Ser Ser Arg Ala Ala Ala Ala Ala  
20 25 30  
Phe Gly Glu Ser Ala Gly Gln Met Ser Asn Glu Arg Gly Phe Glu Asn  
35 40 45  
Val Glu Leu Gly Val Ile Gly Lys Lys Lys Lys Val Pro Arg Arg Val  
50 55 60  
Ile His Phe Val Ser Gly Glu Thr Met Glu Glu Tyr Ser Thr Asp Glu  
65 70 75 80  
Asp Glu Val Asp Gly Leu Glu Lys Lys Asp Val Leu Pro Thr Val Asp

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<210> 995
<211> 107
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 995
Lys Ile Gln Gly Pro Glu Leu Trp Lys Leu Gln Ala Lys Gly Met Gly
 1             5             10             15
Leu Gly Leu Ser Cys Val Xaa Ile Leu Ile Arg Lys Gly Tyr Ala His
      20             25             30
Thr Leu Ala Cys Ser Asp Ser Lys Thr Glu Gly Phe Thr Arg Pro Thr
      35             40             45
Pro Gly Lys Trp Ala Ser Leu Pro Pro Met Leu Ser Phe Asn Leu Cys
 50             55             60

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Asn Leu Pro Val Ser Ile Gly Gly His Leu Thr Pro Ser Lys Glu Pro  
 65 70 75 80

Ser Leu Phe Cys Pro Leu Pro Cys Thr Val Phe Leu Cys Ile Ser Pro  
 85 90 95

Ser Trp Ala Leu Phe Tyr Ser His Leu Gly Leu  
 100 105

<210> 996

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 996

Thr Ile Gln Pro Arg Arg Ser Pro Ser Thr Arg Phe Xaa Xaa Asn Xaa  
 1 5 10 15

Ser Leu Val Gln Glu Asn Leu Tyr Phe Gln Arg Cys Leu Asp Trp Asn  
 20 25 30

Arg Asp Ile Leu Lys Lys Glu Leu Gly Leu Thr Glu Gln Asp Ile Ile  
 35 40 45

Asp Leu Pro Ala Leu Phe Lys Met Asp Glu Asp His Arg Ala Arg Ala  
 50 55 60

Phe Phe Pro Asn Met Val Asn Met Ile Val Leu Asp Lys Asp Leu Gly  
 65 70 75 80

Ile Pro Lys Pro Phe Gly Pro Gln Val Glu Glu Glu Cys Cys Leu Glu  
 85 90 95

Met His Val Arg Gly Leu Leu Glu Pro Leu Gly Leu Glu Cys Thr Phe

100

105

110

Ile Asp Asp Ile Ser Ala Tyr His Lys Phe Leu Gly Glu Val His Cys  
115 120 125

Gly Thr Asn Val Arg Arg Lys Pro Phe Thr Phe Lys Trp Trp His Met  
130 135 140

Val Pro  
145

<210> 997  
<211> 123  
<212> PRT  
<213> Homo sapiens

<400> 997  
Leu Thr Gln Lys Ala Thr Leu Leu Phe Leu Val Lys Met Ala Gly Lys  
1 5 10 15

Gln Ala Val Ser Ala Ser Gly Lys Trp Leu Asp Gly Ile Arg Lys Trp  
20 25 30

Tyr Tyr Asn Ala Ala Gly Phe Asn Lys Leu Gly Leu Met Arg Asp Asp  
35 40 45

Thr Ile Tyr Glu Asp Glu Asp Val Lys Glu Ala Ile Arg Arg Leu Pro  
50 55 60

Glu Asn Leu Tyr Asn Asp Arg Met Phe Arg Ile Lys Arg Ala Leu Asp  
65 70 75 80

Leu Asn Leu Lys His Gln Ile Leu Pro Lys Glu Gln Trp Thr Lys Tyr  
85 90 95

Glu Glu Glu Asn Phe Tyr Leu Glu Pro Tyr Leu Lys Glu Val Ile Arg  
100 105 110

Glu Arg Lys Glu Arg Glu Glu Trp Ala Lys Lys  
115 120

<210> 998  
<211> 762  
<212> PRT  
<213> Homo sapiens

<400> 998



His Gly Leu Thr Arg Asp Ser Ser Glu Gln Gly Arg Thr Gly Asp Thr  
1 5 10 15

Leu Gly Arg Pro Ser Ala Cys Met Asp Ala Leu Lys Pro Pro Cys Leu  
20 25 30

Trp Arg Asn His Glu Arg Gly Lys Lys Asp Arg Asp Ser Cys Gly Arg  
35 40 45

Lys Asn Ser Glu Pro Gly Ser Pro His Ser Leu Glu Ala Leu Arg Asp  
50 55 60

Ala Ala Pro Ser Gln Gly Leu Asn Phe Leu Leu Leu Phe Thr Lys Met  
65 70 75 80

Leu Phe Ile Phe Asn Phe Leu Phe Ser Pro Leu Pro Thr Pro Ala Leu  
85 90 95

Ile Cys Ile Leu Thr Phe Gly Ala Ala Ile Phe Leu Trp Leu Ile Thr  
100 105 110

Arg Pro Gln Pro Val Leu Pro Leu Leu Asp Leu Asn Asn Gln Ser Val  
115 120 125

Gly Ile Glu Gly Gly Ala Arg Lys Gly Val Ser Gln Lys Asn Asn Asp  
130 135 140

Leu Thr Ser Cys Cys Phe Ser Asp Ala Lys Thr Met Tyr Glu Val Phe  
145 150 155 160

Gln Arg Gly Leu Ala Val Ser Asp Asn Gly Pro Cys Leu Gly Tyr Arg  
165 170 175

Lys Pro Asn Gln Pro Tyr Arg Trp Leu Ser Tyr Lys Gln Val Ser Asp  
180 185 190

Arg Ala Glu Tyr Leu Gly Ser Cys Leu Leu His Lys Gly Tyr Lys Ser  
195 200 205

Ser Pro Asp Gln Phe Val Gly Ile Phe Ala Gln Asn Arg Pro Glu Trp  
210 215 220

Ile Ile Ser Glu Leu Ala Cys Tyr Thr Tyr Ser Met Val Ala Val Pro  
225 230 235 240

Leu Tyr Asp Thr Leu Gly Pro Glu Ala Ile Val His Ile Val Asn Lys  
245 250 255

Ala Asp Ile Ala Met Val Ile Cys Asp Thr Pro Gln Lys Ala Leu Val  
260 265 270

Leu Ile Gly Asn Val Glu Lys Gly Phe Thr Pro Ser Leu Lys Val Ile  
 275 280 285

Ile Leu Met Asp Pro Phe Asp Asp Asp Leu Lys Gln Arg Gly Glu Lys  
 290 295 300

Ser Gly Ile Glu Ile Leu Ser Leu Tyr Asp Ala Glu Asn Leu Gly Lys  
 305 310 315 320

Glu His Phe Arg Lys Pro Val Pro Pro Ser Pro Glu Asp Leu Ser Val  
 325 330 335

Ile Cys Phe Thr Ser Gly Thr Thr Gly Asp Pro Lys Gly Ala Met Ile  
 340 345 350

Thr His Gln Asn Ile Val Ser Asn Ala Ala Ala Phe Leu Lys Cys Val  
 355 360 365

Glu His Ala Tyr Glu Pro Thr Pro Asp Asp Val Ala Ile Ser Tyr Leu  
 370 375 380

Pro Leu Ala His Met Phe Glu Arg Ile Val Gln Ala Val Val Tyr Ser  
 385 390 395 400

Cys Gly Ala Arg Val Gly Phe Phe Gln Gly Asp Ile Arg Leu Leu Ala  
 405 410 415

Asp Asp Met Lys Thr Leu Lys Pro Thr Leu Phe Pro Ala Val Pro Arg  
 420 425 430

Leu Leu Asn Arg Ile Tyr Asp Lys Val Gln Asn Glu Ala Lys Thr Pro  
 435 440 445

Leu Lys Lys Phe Leu Leu Lys Leu Ala Val Ser Ser Lys Phe Lys Glu  
 450 455 460

Leu Gln Lys Gly Ile Ile Arg His Asp Ser Phe Trp Asp Lys Leu Ile  
 465 470 475 480

Phe Ala Lys Ile Gln Asp Ser Leu Gly Gly Arg Val Arg Val Ile Val  
 485 490 495

Thr Gly Ala Ala Pro Met Ser Thr Ser Val Met Thr Phe Phe Arg Ala  
 500 505 510

Ala Met Gly Cys Gln Val Tyr Glu Ala Tyr Gly Gln Thr Glu Cys Thr  
 515 520 525

Gly Gly Cys Thr Phe Thr Leu Pro Gly Asp Trp Thr Ser Gly His Val  
 530 535 540

Gly Val Pro Leu Ala Cys Asn Tyr Val Lys Leu Glu Asp Val Ala Asp  
 545 550 555 560  
 Met Asn Tyr Phe Thr Val Asn Asn Glu Gly Glu Val Cys Ile Lys Gly  
 565 570 575  
 Thr Asn Val Phe Lys Gly Tyr Leu Lys Asp Pro Glu Lys Thr Gln Glu  
 580 585 590  
 Ala Leu Asp Ser Asp Gly Trp Leu His Thr Gly Asp Ile Gly Arg Trp  
 595 600 605  
 Leu Pro Asn Gly Thr Leu Lys Ile Ile Asp Arg Lys Lys Asn Ile Phe  
 610 615 620  
 Lys Leu Ala Gln Gly Glu Tyr Ile Ala Pro Glu Lys Ile Glu Asn Ile  
 625 630 635 640  
 Tyr Asn Arg Ser Gln Pro Val Leu Gln Ile Phe Val His Gly Glu Ser  
 645 650 655  
 Leu Arg Ser Ser Leu Val Gly Val Val Val Pro Asp Thr Asp Val Leu  
 660 665 670  
 Pro Ser Phe Ala Ala Lys Leu Gly Val Lys Gly Ser Phe Glu Glu Leu  
 675 680 685  
 Cys Gln Asn Gln Val Val Arg Glu Ala Ile Leu Glu Asp Leu Gln Lys  
 690 695 700  
 Ile Gly Lys Glu Ser Gly Leu Lys Thr Phe Glu Gln Val Lys Ala Ile  
 705 710 715 720  
 Phe Leu His Pro Glu Pro Phe Ser Ile Glu Asn Gly Leu Leu Thr Pro  
 725 730 735  
 Thr Leu Lys Ala Lys Arg Gly Glu Leu Ser Lys Tyr Phe Arg Thr Gln  
 740 745 750  
 Ile Asp Ser Leu Tyr Glu His Ile Gln Asp  
 755 760

&lt;210&gt; 999

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 999

Thr Asn Val Asp Lys Leu Val Lys Asp Ile Tyr Gly Gly Asp Tyr Glu

1                      5                      10                      15  
 Arg Phe Gly Leu Gln Gly Ser Ala Val Ala Ser Ser Phe Gly Asn Met  
                     20                      25                      30  
 Met Ser Lys Glu Lys Arg Asp Ser Ile Ser Lys Glu Asp Leu Ala Arg  
                     35                      40                      45  
 Ala Thr Leu Val Thr Ile Thr Asn Asn Ile Gly Ser Ile Ala Arg Met  
                     50                      55                      60  
 Cys Ala Leu Asn Glu Asn Ile Asp Arg Val Val Phe Val Gly Asn Phe  
                     65                      70                      75                      80  
 Leu Arg Ile Asn Met Val Ser Met Lys Leu Leu Ala Tyr Ala Met Asp  
                     85                      90                      95  
 Phe Trp Ser Lys Gly Gln Leu Lys Ala Leu Phe Leu Glu His Glu Gly  
                     100                      105                      110  
 Tyr Phe Gly Ala Val Gly Ala Leu Leu Glu Leu Phe Lys Met Thr Asp  
                     115                      120                      125  
 Asp Lys  
                     130

<210> 1000  
 <211> 270  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1000  
 Gln Gln Asn Glu Ala Lys Ile Lys Gly Val Ser Lys Gly Arg Asn Ile  
   1                      5                      10                      15  
 Cys Val Val Cys Cys Gln His Lys Met Glu Glu Leu Lys Glu Gly Leu  
                     20                      25                      30  
 Arg Gln Arg Asp Glu Leu Ile Glu Glu Lys Gln Arg Met Gln Gln Lys

35	40	45
Ile Asp Thr Met Thr Lys Glu Val Phe Asp Leu Gln Xaa Thr Leu Leu		
50	55	60
Trp Lys Asp Lys Lys Ile Xaa Lys His Gly Leu Val Ile Ile Pro Asp		
65	70	75
Gly Thr Pro Asn Gly Asp Val Ser His Glu Pro Val Ala Gly Ala Ile		
85	90	95
Thr Val Val Ser Gln Glu Ala Ala Gln Val Leu Glu Ser Ala Gly Glu		
100	105	110
Gly Pro Leu Asp Val Arg Leu Arg Lys Leu Ala Gly Glu Lys Glu Glu		
115	120	125
Leu Leu Ser Gln Ile Arg Lys Leu Lys Leu Gln Leu Glu Glu Glu Arg		
130	135	140
Gln Lys Cys Ser Arg Asn Asp Gly Thr Val Gly Asp Leu Ala Gly Leu		
145	150	155
Gln Asn Gly Ser Asp Leu Gln Phe Ile Glu Met Gln Arg Asp Ala Asn		
165	170	175
Arg Gln Ile Ser Glu Tyr Lys Phe Lys Leu Ser Lys Ala Glu Gln Asp		
180	185	190
Ile Thr Thr Leu Glu Gln Ser Ile Ser Arg Leu Glu Gly Gln Val Leu		
195	200	205
Arg Tyr Lys Thr Ala Ala Glu Asn Ala Glu Lys Val Glu Asp Glu Leu		
210	215	220
Lys Ala Glu Lys Arg Lys Leu Gln Arg Glu Leu Arg Thr Ala Leu Asp		
225	230	235
Lys Ile Glu Glu Met Glu Met Thr Asn Ser His Leu Ala Lys Arg Leu		
245	250	255
Glu Lys Met Lys Ala Asn Arg Thr Ala Leu Leu Ala Gln Gln		
260	265	270

&lt;210&gt; 1001

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1001

Leu His Ser Gln Val Phe Pro Ala Leu Thr Pro Lys Arg Trp Thr Gln  
 1 5 10 15

Val Arg Arg Gly Thr Ala Thr Val Gly Gly Met Ala Ile Leu Gln Val  
 20 25 30

Thr Ala Gly His Pro Leu Ala Met Ala Gln Gly Pro Ala Gly His Pro  
 35 40 45

Pro Thr Met Ala Gln Gly Pro Ala Gly His Pro Pro Thr Met Val Gln  
 50 55 60

Gly Pro Ala Gly His Pro Leu Ala Met Ala Gln Gly Pro Ala Gly His  
 65 70 75 80

Pro Pro Thr Met Val Gln Gly Pro Ala Gly Leu Pro Leu Ala Met Ala  
 85 90 95

Gln Val Thr His Pro Leu Val His Ile Thr Glu Glu Val Xaa Xaa Asn  
 100 105 110

Arg Thr Gln Asp Gly Lys Pro Glu Arg Asn Cys Pro  
 115 120

&lt;210&gt; 1002

&lt;211&gt; 647

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1002

Thr Ile Gln Ile Val Asn Met Gly Arg Arg Ser Thr Ser Ser Thr Lys  
 1 5 10 15

Ser Gly Lys Phe Met Asn Pro Thr Asp Gln Ala Arg Lys Glu Ala Arg  
 20 25 30

Lys Arg Glu Leu Lys Lys Asn Lys Lys Gln Arg Met Met Val Arg Ala  
 35 40 45

Ala Val Leu Lys Met Lys Asp Pro Lys Gln Ile Ile Arg Asp Met Glu  
 50 55 60

Lys Leu Asp Glu Met Glu Phe Asn Pro Val Gln Gln Pro Gln Leu Asn  
 65 70 75 80

Glu Lys Val Leu Lys Asp Lys Arg Lys Lys Leu Arg Glu Thr Phe Glu  
 85 90 95

Arg Ile Leu Arg Leu Tyr Glu Lys Glu Asn Pro Asp Ile Tyr Lys Glu  
 100 105 110

Leu Arg Lys Leu Glu Val Glu Tyr Glu Gln Lys Arg Ala Gln Leu Ser  
 115 120 125

Gln Tyr Phe Asp Ala Val Lys Asn Ala Gln His Val Glu Val Glu Ser  
 130 135 140

Ile Pro Leu Pro Asp Met Pro His Ala Pro Ser Asn Ile Leu Ile Gln  
 145 150 155 160

Asp Ile Pro Leu Pro Gly Ala Gln Pro Pro Ser Ile Leu Lys Lys Thr  
 165 170 175

Ser Ala Tyr Gly Pro Pro Thr Arg Ala Val Ser Ile Leu Pro Leu Leu  
 180 185 190

Gly His Gly Val Pro Arg Leu Pro Pro Gly Arg Lys Pro Pro Gly Pro  
 195 200 205

Pro Pro Gly Pro Pro Pro Pro Gln Val Val Gln Met Tyr Gly Arg Lys  
 210 215 220

Val Gly Phe Ala Leu Asp Leu Pro Pro Arg Arg Arg Asp Glu Asp Met  
 225 230 235 240

Leu Tyr Ser Pro Glu Leu Ala Gln Arg Gly His Asp Asp Asp Val Ser  
 245 250 255

Ser Thr Ser Glu Asp Asp Gly Tyr Pro Glu Asp Met Asp Gln Asp Lys  
 260 265 270

His Asp Asp Ser Thr Asp Asp Ser Asp Thr Asp Lys Ser Asp Gly Glu  
 275 280 285

Ser Asp Gly Asp Glu Phe Val His Arg Asp Asn Gly Glu Arg Asp Asn  
 290 295 300

Asn Glu Glu Lys Lys Ser Gly Leu Ser Val Arg Phe Ala Asp Met Pro  
 305 310 315 320

Gly Lys Ser Arg Lys Lys Lys Lys Asn Met Lys Glu Leu Thr Pro Leu  
 325 330 335

Gln Ala Met Met Leu Arg Met Ala Gly Gln Glu Ile Pro Glu Glu Gly  
 340 345 350

Arg Glu Val Glu Glu Phe Ser Glu Asp Asp Asp Glu Asp Asp Ser Asp  
 355 360 365

Asp Ser Glu Ala Glu Lys Gln Ser Gln Lys Gln His Lys Glu Glu Ser  
 370 375 380

His Ser Asp Gly Thr Ser Thr Ala Ser Ser Gln Gln Gln Ala Pro Pro  
 385 390 395 400

Gln Ser Val Pro Pro Ser Gln Ile Gln Ala Pro Pro Met Pro Gly Pro  
 405 410 415

Pro Pro Leu Gly Pro Pro Pro Ala Pro Pro Leu Arg Pro Pro Gly Pro  
 420 425 430

Pro Thr Gly Leu Pro Pro Gly Pro Pro Pro Gly Ala Pro Pro Phe Leu  
 435 440 445

Arg Pro Pro Gly Met Pro Gly Leu Arg Gly Pro Leu Pro Arg Leu Leu  
 450 455 460

Pro Pro Gly Pro Pro Pro Gly Arg Pro Pro Gly Pro Pro Pro Gly Pro  
 465 470 475 480

Pro Pro Gly Leu Pro Pro Gly Pro Pro Pro Arg Gly Pro Pro Pro Arg  
 485 490 495

Leu Pro Pro Pro Ala Pro Pro Gly Ile Pro Pro Pro Arg Pro Gly Met  
 500 505 510

Met Arg Pro Pro Leu Val Pro Pro Leu Gly Pro Ala Pro Pro Gly Leu  
 515 520 525

Phe Pro Pro Ala Pro Leu Pro Asn Pro Gly Val Leu Ser Ala Pro Pro  
 530 535 540

Asn Leu Ile Gln Arg Pro Lys Ala Asp Asp Thr Ser Ala Ala Thr Ile  
 545 550 555 560

Glu Lys Lys Ala Thr Ala Thr Ile Ser Ala Lys Pro Gln Ile Thr Asn  
 565 570 575

Pro Lys Ala Glu Ile Thr Arg Phe Val Pro Thr Ala Leu Arg Val Arg  
 580 585 590



Arg Glu Asn Lys Gly Ala Thr Ala Ala Pro Gln Arg Lys Ser Glu Asp  
595 600 605

Asp Ser Ala Val Pro Leu Ala Lys Ala Ala Pro Lys Ser Gly Pro Ser  
610 615 620

Val Pro Val Ser Val Gln Thr Lys Asp Asp Val Tyr Glu Ala Phe Met  
625 630 635 640

Lys Glu Met Glu Gly Leu Leu  
645

<210> 1003

<211> 342

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (253)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1003

Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys  
1 5 10 15

Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly  
20 25 30

Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro  
35 40 45

Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr  
50 55 60

Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val  
65 70 75 80

Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn  
85 90 95

Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Xaa Val Glu Pro  
100 105 110

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
115 120 125

Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp  
130 135 140

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp  
145 150 155 160

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly  
165 170 175

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn  
180 185 190

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp  
195 200 205

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro  
210 215 220

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu  
225 230 235 240

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Xaa Glu Xaa Thr Lys Asn  
245 250 255

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile  
260 265 270

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr  
275 280 285

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys  
290 295 300

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys  
305 310 315 320

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu  
325 330 335

Ser Leu Ser Pro Gly Lys  
340

<210> 1004  
<211> 544  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (531)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1004  
Arg Leu Pro Pro Ala Ser Ala Thr Ala Arg Arg Pro Arg Pro Ser Ser  
1 5 10 15

Ala Leu Cys Cys Pro Arg Ser Arg Arg Arg Xaa Gly Gln Arg Pro Gly  
20 25 30

Ala Ala Gln Gly Cys His Pro Arg Arg Phe Pro Lys Lys Ala Ser Arg  
35 40 45

Thr Ala Arg Ile Ala Ser Asp Glu Glu Ile Gln Gly Thr Lys Asp Ala  
50 55 60

Val Ile Gln Asp Leu Glu Arg Lys Leu Arg Phe Lys Glu Asp Leu Leu  
65 70 75 80

Asn Asn Gly Gln Pro Arg Leu Thr Tyr Glu Glu Arg Met Ala Arg Arg  
85 90 95

Leu Leu Gly Ala Asp Ser Ala Thr Val Phe Asn Ile Gln Glu Pro Glu  
100 105 110

Glu Glu Thr Ala Asn Gln Glu Tyr Lys Val Ser Ser Cys Glu Gln Arg  
115 120 125

Leu Ile Ser Glu Ile Glu Tyr Arg Leu Glu Arg Ser Pro Val Asp Glu  
130 135 140

Ser Gly Asp Glu Val Gln Tyr Gly Asp Val Pro Val Glu Asn Gly Met  
145 150 155 160

Ala Pro Phe Phe Glu Met Lys Leu Lys His Tyr Lys Ile Phe Glu Gly  
165 170 175

Met Pro Val Thr Phe Thr Cys Arg Val Ala Gly Asn Pro Lys Pro Lys  
 180 185 190

Ile Tyr Trp Phe Lys Asp Gly Lys Gln Ile Ser Pro Lys Ser Asp His  
 195 200 205

Tyr Thr Ile Gln Arg Asp Leu Asp Gly Thr Cys Ser Leu His Thr Thr  
 210 215 220

Ala Ser Thr Leu Asp Asp Asp Gly Asn Tyr Thr Ile Met Ala Ala Asn  
 225 230 235 240

Pro Gln Gly Arg Ile Ser Cys Thr Gly Arg Leu Met Val Gln Ala Val  
 245 250 255

Asn Gln Arg Gly Arg Ser Pro Arg Ser Pro Ser Gly His Pro His Val  
 260 265 270

Arg Arg Pro Arg Ser Arg Ser Arg Asp Ser Gly Asp Glu Asn Glu Pro  
 275 280 285

Ile Gln Glu Arg Phe Phe Arg Pro His Phe Leu Gln Ala Pro Gly Asp  
 290 295 300

Leu Thr Val Gln Glu Gly Lys Leu Cys Arg Met Asp Cys Lys Val Ser  
 305 310 315 320

Gly Leu Pro Thr Pro Asp Leu Ser Trp Gln Leu Asp Gly Lys Pro Val  
 325 330 335

Arg Pro Asp Ser Ala His Lys Met Leu Val Arg Glu Asn Gly Val His  
 340 345 350

Ser Leu Ile Ile Glu Pro Val Thr Ser Arg Asp Ala Gly Ile Tyr Thr  
 355 360 365

Cys Ile Ala Thr Asn Arg Ala Gly Gln Asn Ser Phe Ser Leu Glu Leu  
 370 375 380

Val Val Ala Ala Lys Glu Ala His Lys Pro Pro Val Phe Ile Glu Lys  
 385 390 395 400

Leu Gln Asn Thr Gly Val Ala Asp Gly Tyr Pro Val Arg Leu Glu Cys  
 405 410 415

Arg Val Leu Gly Val Pro Pro Pro Gln Ile Phe Trp Lys Lys Glu Asn  
 420 425 430

Glu Ser Leu Thr His Ser Thr Asp Arg Val Ser Met His Gln Asp Asn  
 435 440 445

His Gly Tyr Ile Cys Leu Leu Ile Gln Gly Ala Thr Lys Glu Asp Ala  
 450 455 460

Gly Trp Tyr Thr Val Ser Ala Lys Asn Glu Ala Gly Ile Val Ser Cys  
 465 470 475 480

Thr Ala Arg Leu Asp Val Tyr Thr Gln Trp His Gln Gln Ser Gln Ser  
 485 490 495

Thr Lys Pro Lys Lys Val Arg Pro Ser Ala Ser Arg Tyr Ala Ala Leu  
 500 505 510

Ser Asp Gln Gly Leu Asp Ile Lys Ala Ala Phe Gln Pro Glu Ala Asn  
 515 520 525

Pro Ser Xaa Leu Thr Leu Asn Thr Ala Leu Val Glu Ser Glu Asp Leu  
 530 535 540

<210> 1005

<211> 194

<212> PRT

<213> Homo sapiens

<400> 1005

Ala Ala Pro Gln Pro Thr Pro Glu Glu Arg Pro Ala Gly Val Arg Arg  
 1 5 10 15

Ala Gln Glu Leu Gly Met Ser Tyr Lys Pro Ile Ala Pro Ala Pro Ser  
 20 25 30

Ser Thr Pro Gly Ser Ser Thr Pro Gly Pro Gly Thr Pro Val Pro Thr  
 35 40 45

Gly Ser Val Pro Ser Pro Ser Gly Ser Val Pro Gly Ala Gly Ala Pro  
 50 55 60

Phe Arg Pro Leu Phe Asn Asp Phe Gly Pro Pro Ser Met Gly Tyr Val  
 65 70 75 80

Gln Ala Met Lys Pro Pro Gly Ala Gln Gly Ser Gln Ser Thr Tyr Thr  
 85 90 95

Asp Leu Leu Ser Val Ile Glu Glu Met Gly Lys Glu Ile Arg Pro Thr  
 100 105 110

Tyr Ala Gly Ser Lys Ser Ala Met Glu Arg Leu Lys Arg Gly Ser Ala

115 120 125

Ser Ala Ser Ala Ser Gly Pro Ile Arg Pro Leu Gln Ser Thr Arg Phe  
130 135 140

Ser Leu Ala Phe Ile Pro Ser Cys Thr Asn His Pro Gly Leu Pro Val  
145 150 155 160

Leu Cys Pro Leu Val Gly Pro Leu Gln Glu Pro Arg Ser Gly Pro Pro  
165 170 175

Gly Gly Ser Thr Lys Asp Thr Pro Pro Gln Gln Glu Leu Ala Ala Arg  
180 185 190

Ser Pro

<210> 1006  
<211> 312  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (220)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (222)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (231)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (244)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (309)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1006

Ala Val Arg Leu Pro Ala Ala Tyr Ile Lys Ala Pro Gly His Ala Glu  
1 5 10 15

Pro Ser Ser Arg Thr Arg Pro Thr Thr Met Arg Ser Cys Leu Trp Arg  
20 25 30

Cys Arg His Leu Ser Gln Gly Val Gln Trp Ser Leu Leu Leu Ala Val  
35 40 45

Leu Val Phe Phe Leu Phe Ala Leu Pro Ser Phe Ile Lys Glu Pro Gln  
50 55 60

Thr Lys Pro Ser Arg His Gln Arg Thr Glu Asn Ile Lys Glu Arg Ser  
65 70 75 80

Leu Gln Ser Leu Ala Lys Pro Lys Ser Gln Ala Pro Thr Arg Ala Arg  
85 90 95

Arg Thr Thr Ile Tyr Ala Glu Pro Xaa Pro Glu Asn Asn Ala Leu Asn  
100 105 110

Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu  
115 120 125

Ala Asn Gln Ala Pro Pro Glu Glu Gln Asp Lys Val Pro His Thr Ala  
130 135 140

Gln Arg Ala Ala Trp Lys Ser Pro Glu Lys Glu Lys Thr Met Val Asn  
145 150 155 160

Thr Leu Ser Pro Arg Gly Gln Asp Ala Gly Met Ala Ser Gly Arg Thr  
165 170 175

Glu Ala Gln Ser Trp Lys Ser Gln Asp Thr Lys Thr Thr Gln Gly Asn  
180 185 190

Gly Gly Gln Thr Arg Lys Leu Thr Ala Ser Arg Thr Val Ser Glu Lys

195	200	205
His Gln Gly Lys Ala Ala Thr Thr Ala Lys Thr Xaa Ile Xaa Lys Ser		
210	215	220
Gln His Arg Met Leu Ala Xaa Thr Gly Ala Val Ser Thr Arg Thr Arg		
225	230	235 240
Gln Lys Gly Xaa Thr Thr Ala Val Ile Pro Pro Lys Glu Lys Lys Pro		
245	250	255
Gln Ala Thr Pro Pro Pro Ala Pro Phe Gln Ser Pro Thr Thr Gln Arg		
260	265	270
Asn Gln Arg Leu Lys Gly Gly Asn Phe Lys Ser Glu Pro Arg Trp Asp		
275	280	285
Phe Glu Glu Lys Tyr Lys Leu Arg Asn Xaa Xaa Ala Ser Asp Asp Leu		
290	295	300
Ala Leu Thr Leu Xaa Arg Ser Lys		
305	310	

&lt;210&gt; 1007

&lt;211&gt; 365

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1007

Pro Glu Pro Ala Met Ala Leu Pro His Arg Arg Leu Ser Pro Trp Leu		
1	5	10 15
Arg Gln Arg His Gln Gly Pro Gly Gln Val Cys Gly Pro Gln Ala Ala		
20	25	30
Glu His Asp Arg Arg Asp Ala Gly Cys Thr Ala Asp Leu Leu Val Gly		
35	40	45
Arg Ala Met Thr Phe His Gly His Gly Phe Leu Arg Leu Ala Leu Ser		
50	55	60
Asn Val Ala Pro Leu Thr Gly Asn Val Tyr Ser Gly Phe Gly Phe His		
65	70	75 80
Ser Ala Gln Asp Ser Ala Leu Leu Tyr Tyr Arg Ala Ser Pro Asp Gly		
85	90	95
Leu Cys Gln Val Ser Leu Gln Gln Gly Arg Val Ser Leu Gln Leu Leu		
100	105	110



Arg Thr Glu Val Lys Thr Gln Ala Gly Phe Ala Asp Gly Ala Pro His  
 115 120 125

Tyr Val Ala Phe Tyr Ser Asn Ala Thr Gly Val Trp Leu Tyr Val Asp  
 130 135 140

Asp Gln Leu Gln Gln Met Lys Pro His Arg Gly Pro Pro Pro Glu Leu  
 145 150 155 160

Gln Pro Gln Pro Glu Gly Pro Pro Arg Leu Leu Leu Gly Gly Leu Pro  
 165 170 175

Glu Ser Gly Thr Ile Tyr Asn Phe Ser Gly Cys Ile Ser Asn Val Phe  
 180 185 190

Val Gln Arg Leu Leu Gly Pro Gln Arg Val Phe Asp Leu Gln Gln Asn  
 195 200 205

Leu Gly Ser Val Asn Val Ser Thr Gly Cys Ala Pro Ala Leu Gln Ala  
 210 215 220

Gln Thr Pro Gly Leu Gly Pro Arg Gly Leu Gln Ala Thr Ala Arg Lys  
 225 230 235 240

Ala Ser Arg Arg Ser Arg Gln Pro Ala Arg His Pro Ala Cys Met Leu  
 245 250 255

Pro Pro His Leu Arg Thr Thr Arg Asp Ser Tyr Gln Phe Gly Gly Ser  
 260 265 270

Leu Ser Ser His Leu Glu Phe Val Gly Ile Leu Ala Arg His Arg Asn  
 275 280 285

Trp Pro Ser Leu Ser Met His Val Leu Pro Arg Ser Ser Arg Gly Leu  
 290 295 300

Leu Leu Phe Thr Ala Arg Leu Arg Pro Gly Ser Pro Ser Leu Ala Leu  
 305 310 315 320

Phe Leu Ser Asn Gly His Phe Val Ala Gln Met Glu Gly Leu Gly Thr  
 325 330 335

Arg Leu Arg Ala Gln Ser Arg Gln Arg Ser Arg Pro Gly Ala Gly Thr  
 340 345 350

Arg Ser Pro Cys Ala Gly Arg Arg Thr Gly Ser Cys Trp  
 355 360 365

<210> 1008  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 1008

Ala	Thr	Pro	Pro	Pro	Pro	Glu	Gln	Ala	Met	Val	Ala	Ala	Thr	Val	Ala
1				5					10					15	
Ala	Ala	Trp	Leu	Leu	Leu	Trp	Ala	Ala	Ala	Cys	Ala	Gln	Gln	Glu	Gln
			20					25					30		
Asp	Phe	Tyr	Asp	Phe	Lys	Ala	Val	Asn	Ile	Arg	Gly	Lys	Leu	Val	Ser
	35						40					45			
Leu	Glu	Lys	Tyr	Arg	Gly	Ser	Val	Ser	Leu	Val	Val	Asn	Val	Ala	Ser
	50					55					60				
Glu	Cys	Gly	Phe	Thr	Asp	Gln	His	Tyr	Arg	Ala	Leu	Gln	Gln	Leu	Gln
65					70					75					80
Arg	Asp	Leu	Gly	Pro	His	His	Phe	Asn	Val	Leu	Ala	Phe	Pro	Cys	Asn
				85					90					95	
Gln	Phe	Gly	Gln	Gln	Glu	Pro	Asp	Ser	Asn	Lys	Glu	Ile	Glu	Ser	Phe
			100					105					110		
Ala	Arg	Arg	Thr	Tyr	Ser	Val	Ser	Phe	Pro	Met	Phe	Ser	Lys	Ile	Ala
	115						120					125			
Val	Thr	Gly	Thr	Gly	Ala	His	Pro	Ala	Phe	Lys	Tyr	Leu	Ala	Gln	Thr
	130					135					140				
Ser	Gly	Lys	Glu	Pro	Thr	Trp	Asn	Phe	Trp	Lys	Tyr	Leu	Val	Ala	Pro
145					150					155					160
Asp	Gly	Lys	Val	Val	Gly	Ala	Trp	Asp	Pro	Thr	Val	Ser	Val	Glu	Glu
			165					170						175	
Val	Arg	Pro	Gln	Ile	Thr	Ala	Leu	Val	Arg	Lys	Leu	Ile	Leu	Leu	Lys
		180						185					190		
Arg	Glu	Asp	Leu												
		195													

<210> 1009  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

<220>  
<221> SITE  
<222> (156)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (196)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (204)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (210)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (212)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (215)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (220)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (222)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1009  
Asp Pro Arg Val Arg Ala Ala Ala Ala Gly Pro Met Ala Asp Thr Gln  
1 5 10 15

Tyr Ile Leu Pro Asn Asp Ile Gly Val Ser Ser Leu Asp Cys Arg Glu  
20 25 30

Ala Phe Arg Leu Leu Ser Pro Thr Glu Arg Leu Tyr Ala Tyr His Leu  
35 40 45

Ser Arg Ala Ala Trp Tyr Gly Gly Leu Ala Val Leu Leu Gln Thr Ser  
 50 55 60  
 Pro Glu Ala Pro Tyr Ile Tyr Ala Leu Leu Ser Arg Leu Phe Arg Ala  
 65 70 75 80  
 Gln Asp Pro Asp Gln Leu Arg Gln His Ala Leu Ala Glu Gly Leu Thr  
 85 90 95  
 Glu Glu Glu Tyr Gln Ala Phe Leu Val Tyr Ala Ala Gly Val Tyr Ser  
 100 105 110  
 Asn Met Gly Asn Tyr Lys Ser Phe Gly Asp Thr Lys Phe Val Pro Asn  
 115 120 125  
 Leu Pro Lys Glu Lys Leu Glu Arg Val Ile Leu Gly Ser Glu Ala Ala  
 130 135 140  
 Gln Gln His Pro Glu Glu Val Arg Gly Leu Trp Xaa Thr Cys Gly Glu  
 145 150 155 160  
 Leu Met Phe Ser Leu Glu Pro Arg Leu Arg His Leu Gly Leu Gly Lys  
 165 170 175  
 Glu Gly Ile Thr Thr Tyr Phe Ser Gly Asn Cys Thr Met Glu Asp Ala  
 180 185 190  
 Lys Leu Ala Xaa Ile Ser Gly Leu Thr Glu Pro Xaa Cys Leu Gln Gln  
 195 200 205  
 Pro Xaa Leu Xaa Arg Ser Xaa Trp Glu Lys Gly Xaa Pro Xaa Thr Lys  
 210 215 220  
 Val Arg Val  
 225

&lt;210&gt; 1010

&lt;211&gt; 344

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1010

Asp Pro Ala Ser Asn Met Trp Gln Leu Trp Ala Ser Leu Cys Cys Leu  
 1 5 10 15

Leu Val Leu Ala Asn Ala Arg Ser Arg Pro Ser Phe His Pro Xaa Ser  
20 25 30

Asp Glu Leu Val Asn Tyr Val Asn Lys Arg Asn Thr Thr Trp Gln Ala  
35 40 45

Gly His Asn Phe Tyr Asn Val Asp Met Ser Tyr Leu Lys Arg Leu Cys  
50 55 60

Gly Thr Phe Leu Gly Gly Pro Lys Pro Pro Gln Arg Val Met Phe Thr  
65 70 75 80

Glu Asp Leu Lys Leu Pro Ala Ser Phe Asp Ala Arg Glu Gln Trp Pro  
85 90 95

Gln Cys Pro Thr Ile Lys Glu Ile Arg Asp Gln Gly Ser Cys Gly Ser  
100 105 110

Cys Trp Ala Phe Gly Ala Val Glu Ala Ile Ser Asp Arg Ile Cys Ile  
115 120 125

His Thr Asn Ala His Val Ser Val Glu Val Ser Ala Glu Asp Leu Leu  
130 135 140

Thr Cys Cys Gly Ser Met Cys Gly Asp Gly Cys Asn Gly Gly Tyr Pro  
145 150 155 160

Ala Glu Ala Trp Asn Phe Trp Thr Arg Lys Gly Leu Val Ser Gly Gly  
165 170 175

Leu Tyr Glu Ser His Val Gly Cys Arg Pro Tyr Ser Ile Pro Pro Cys  
180 185 190

Glu His His Val Asn Gly Ser Arg Pro Pro Cys Thr Gly Glu Gly Asp  
195 200 205

Thr Pro Lys Cys Ser Lys Ile Cys Glu Pro Gly Tyr Ser Pro Thr Tyr  
210 215 220

Lys Gln Asp Lys His Tyr Gly Tyr Asn Ser Tyr Ser Val Ser Asn Ser  
225 230 235 240

Glu Lys Asp Ile Met Ala Glu Ile Tyr Lys Asn Gly Pro Val Glu Gly  
245 250 255

Ala Phe Ser Val Tyr Ser Asp Phe Leu Leu Tyr Lys Ser Gly Val Tyr  
260 265 270

Gln His Val Thr Gly Glu Met Met Gly Gly His Ala Ile Arg Ile Leu  
275 280 285

Gly Trp Gly Val Glu Asn Gly Thr Pro Tyr Trp Leu Val Ala Asn Ser  
 290 295 300

Trp Asn Thr Asp Trp Gly Asp Asn Gly Phe Phe Lys Ile Leu Arg Gly  
 305 310 315 320

Gln Asp His Cys Gly Ile Glu Ser Glu Val Val Ala Gly Ile Pro Arg  
 325 330 335

Thr Asp Gln Tyr Trp Glu Lys Ile  
 340

<210> 1011

<211> 384

<212> PRT

<213> Homo sapiens

<400> 1011

Ala Gly Thr Arg Gly Pro Gly Ala His Ile Arg Pro Trp His Pro Asp  
 1 5 10 15

Val Ala Thr Met Leu Asn Ile Leu Ala Leu Val Tyr Arg Asp Gln Asn  
 20 25 30

Lys Tyr Lys Glu Ala Ala His Leu Leu Asn Asp Ala Leu Ser Ile Arg  
 35 40 45

Glu Ser Thr Leu Gly Pro Asp His Pro Ala Val Ala Ala Thr Leu Asn  
 50 55 60

Asn Leu Ala Val Leu Tyr Gly Lys Arg Gly Lys Tyr Lys Glu Ala Glu  
 65 70 75 80

Pro Leu Cys Gln Arg Ala Leu Glu Ile Arg Glu Lys Val Leu Gly Thr  
 85 90 95

Asn His Pro Asp Val Ala Lys Gln Leu Asn Asn Leu Ala Leu Leu Cys  
 100 105 110

Gln Asn Gln Gly Lys Tyr Glu Ala Val Glu Arg Tyr Tyr Gln Arg Ala  
 115 120 125

Leu Ala Ile Tyr Glu Gly Gln Leu Gly Pro Asp Asn Pro Asn Val Ala  
 130 135 140

Arg Thr Lys Asn Asn Leu Ala Ser Cys Tyr Leu Lys Gln Gly Lys Tyr  
 145 150 155 160

Ala Glu Ala Glu Thr Leu Tyr Lys Glu Ile Leu Thr Arg Ala His Val  
                             165                            170                            175

Gln Glu Phe Gly Ser Val Asp Asp Asp His Lys Pro Ile Trp Met His  
                             180                            185                            190

Ala Glu Glu Arg Glu Glu Met Ser Lys Ser Arg His His Glu Gly Gly  
                             195                            200                            205

Thr Pro Tyr Ala Glu Tyr Gly Gly Trp Tyr Lys Ala Cys Lys Val Ser  
                             210                            215                            220

Ser Pro Thr Val Asn Thr Thr Leu Arg Asn Leu Gly Ala Leu Tyr Arg  
 225                            230                            235                            240

Arg Gln Gly Lys Leu Glu Ala Ala Glu Thr Leu Glu Glu Cys Ala Leu  
                             245                            250                            255

Arg Ser Arg Arg Gln Gly Thr Asp Pro Ile Ser Gln Thr Lys Val Ala  
                             260                            265                            270

Glu Leu Leu Gly Glu Ser Asp Gly Arg Arg Thr Ser Gln Glu Gly Pro  
                             275                            280                            285

Gly Asp Ser Val Lys Phe Glu Gly Gly Glu Asp Ala Ser Val Ala Val  
                             290                            295                            300

Glu Trp Ser Gly Asp Gly Ser Gly Thr Leu Gln Arg Ser Gly Ser Leu  
 305                            310                            315                            320

Gly Lys Ile Arg Asp Val Leu Arg Arg Ser Ser Glu Leu Leu Val Arg  
                             325                            330                            335

Lys Leu Gln Gly Thr Glu Pro Arg Pro Ser Ser Ser Asn Met Lys Arg  
                             340                            345                            350

Ala Ala Ser Leu Asn Tyr Leu Asn Gln Pro Ser Ala Ala Pro Leu Gln  
                             355                            360                            365

Val Ser Arg Gly Leu Ser Ala Ser Thr Met Asp Leu Ser Ser Ser Ser  
                             370                            375                            380

&lt;210&gt; 1012

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1012

Ala Asp Ala Trp Ala Trp Ser Gln Tyr Gly Ala Val Leu Gly Ser Tyr  
 1 5 10 15  
 Ser Pro Glu Pro Pro Thr Ser Ala Gly Ser Gln Ile Pro Leu Cys Ala  
 20 25 30  
 Asn Leu Val Pro Val Pro Ile Thr Asn Ala Thr Leu Asp Arg Ile Thr  
 35 40 45  
 Gly Lys Trp Phe Tyr Ile Ala Ser Ala Phe Arg Asn Glu Glu Tyr Asn  
 50 55 60  
 Lys Ser Val Gln Glu Ile Gln Ala Thr Phe Phe Tyr Phe Thr Pro Asn  
 65 70 75 80  
 Lys Thr Glu Asp Thr Ile Phe Leu Arg Glu Tyr Gln Thr Arg Gln Asn  
 85 90 95  
 Gln Cys Phe Tyr Asn Ser Ser Tyr Leu Asn Val Gln Arg Glu Asn Gly  
 100 105 110  
 Thr Val Ser Arg Tyr Glu Gly Gly Arg Glu Thr Cys Cys Ser Pro Ala  
 115 120 125  
 Val Pro  
 130

&lt;210&gt; 1013

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1013

Lys Ile Leu Trp Pro Gly Val Val Ala His Ala Cys Asn Pro Ser Thr  
 1 5 10 15  
 Leu Gly Gly Arg Gly Gly Arg Ile Ala  
 20 25

&lt;210&gt; 1014

&lt;211&gt; 233

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;



<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1014

Asn Cys Asn Leu Asn Pro Ala Ile His Phe Gly Phe Phe Leu Ser Asp  
1 5 10 15

Thr Met Cys Gly Lys Leu Phe Cys Gln Gly Gly Ser Asp Asn Leu Pro  
20 25 30

Trp Lys Gly Arg Ile Val Thr Phe Leu Thr Cys Xaa Thr Phe Asp Pro  
35 40 45

Glu Asp Thr Ser Gln Glu Ile Xaa Met Val Ala Asn Gly Thr Lys Cys  
50 55 60

Gly Asp Asn Lys Val Cys Xaa Asn Ala Glu Cys Val Asp Ile Glu Lys  
65 70 75 80

Ala Tyr Lys Ser Thr Asn Cys Ser Ser Lys Cys Lys Gly His Ala Val  
85 90 95

Cys Asp His Glu Leu Gln Cys Gln Cys Glu Glu Gly Trp Ile Pro Pro  
100 105 110

Asp Cys Asp Asp Ser Ser Val Val Phe His Phe Ser Ile Val Val Gly  
115 120 125

Val Leu Phe Pro Met Ala Val Ile Phe Val Val Val Ala Met Val Ile  
130 135 140

Arg His Gln Ser Ser Arg Glu Lys Gln Lys Lys Asp Gln Arg Pro Leu  
145 150 155 160

Ser Thr Thr Gly Thr Arg Pro His Lys Gln Lys Arg Lys Pro Gln Met  
165 170 175

Val Lys Ala Val Gln Pro Gln Glu Met Ser Gln Met Lys Pro His Val  
180 185 190

Tyr Asp Leu Pro Val Glu Gly Asn Glu Pro Pro Ala Ser Phe His Lys  
 195 200 205

Asp Thr Asn Ala Leu Pro Pro Thr Val Phe Lys Asp Asn Pro Met Ser  
 210 215 220

Thr Pro Lys Asp Ser Asn Pro Lys Ala  
 225 230

<210> 1015

<211> 573

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1015

His Glu Tyr Lys Val Ala Ala Leu Gly Leu Ala Thr Gly Xaa Val Leu  
 1 5 10 15

Val Leu Leu Leu Leu Cys Leu Tyr Arg Val Leu Xaa Pro Arg Asn Tyr  
 20 25 30

Gly Gln Leu Gly Gly Gly Pro Gly Arg Arg Arg Arg Gly Glu Leu Pro  
 35 40 45

Cys Asp Asp Tyr Gly Tyr Ala Pro Pro Glu Thr Glu Ile Val Pro Leu  
 50 55 60

Val Leu Arg Gly His Leu Met Asp Ile Glu Cys Leu Ala Ser Asp Gly  
 65 70 75 80

Met Leu Leu Val Ser Cys Cys Leu Ala Gly His Ile Cys Val Trp Asp  
 85 90 95

Ala Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln

100	105	110
Arg Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp 115	120	125
Glu Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp 130	135	140
Ser Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Pro Ser Leu 145	150	155
Phe Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser 165	170	175
Ala Gln Xaa Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg 180	185	190
Ala Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys 195	200	205
Leu Val Gln Arg Val Tyr Gln Glu Glu Gly Leu Ala Ala Val Cys Thr 210	215	220
Pro Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro 225	230	235
Glu Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp 245	250	255
Ala Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn 260	265	270
Leu Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala 275	280	285
Ile Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile 290	295	300
Thr Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn 305	310	315
Gly Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro 325	330	335
Leu Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro 340	345	350
Val Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val 355	360	365
Pro Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Ala Gly		

370                                      375                                      380  
 Arg Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu  
 385                                      390                                      395                                      400  
 Glu Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile  
                                     405                                      410                                      415  
 Thr Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln  
                                     420                                      425                                      430  
 Asp Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser  
                                     435                                      440                                      445  
 His Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr  
                                     450                                      455                                      460  
 Ser Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp  
 465                                      470                                      475                                      480  
 Arg Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys  
                                     485                                      490                                      495  
 Gly Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly  
                                     500                                      505                                      510  
 Gln Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln  
                                     515                                      520                                      525  
 Thr Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile  
                                     530                                      535                                      540  
 Leu Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu  
 545                                      550                                      555                                      560  
 Ser Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp  
                                     565                                      570

<210> 1016  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1016  
 Lys Phe Tyr Ser Tyr Ser Val Tyr Val Ala Gln Pro Gly Leu Glu Pro  
   1                                    5                                    10                                    15  
 Phe Gly Ser Ser Asp Pro Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile  
                                     20                                    25                                    30

Thr Asp Gly Ser His Arg Val Trp Pro Ile Pro Ala Ser  
           35                          40                          45

<210> 1017  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1017  
 Gly Lys Val His Gly Leu Ile Pro Gln Val Lys Asn Val Phe Thr Leu  
   1                  5                          10                          15  
 Leu Ile Ala Val Ser Leu Tyr Leu Tyr Ile Arg Tyr Ile Ser Tyr Glu  
           20                          25                          30  
 His Lys Phe Val Val Lys Val Ser Ser Val Trp Ala Met Ala His Thr  
           35                          40                          45  
 Cys Asn Ser Asn Thr Leu Gly Gly Ser Gly Gly Arg Ile Ser Ser Pro  
       50                          55                          60  
 Gln Glu Phe Glu Thr Ser Leu Gly Asn Lys Leu Asp Pro Met Ser Leu  
   65                          70                          75                          80  
 Lys Asn Val Lys Asn Ile Lys Arg Leu Ser Gln Glu Asp His Leu Ser  
                   85                          90                          95  
 Leu Gly Val Gln Gly Cys Ser Lys Leu  
           100                          105

<210> 1018  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 1018  
 Asn Pro Val Ser Thr Lys Asn Thr Lys Ile Ser Trp Val Trp Trp Trp  
   1                  5                          10                          15  
 Ala Pro Val Val Pro Ala Thr Arg Glu Ala Glu Ala Gly Val  
           20                          25                          30

<210> 1019  
 <211> 72

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1019  
Pro Gly Trp Ser Arg Ser Pro Asp Leu Val Xaa Arg Ala Pro Arg Pro  
1 5 10 15  
Pro Lys Val Leu Gly Xaa Thr Gly Val Ser His Arg Ala Arg Pro Asp  
20 25 30  
Ser Leu Lys Ile Glu Glu Val Leu Pro Arg Xaa Ser Asp Leu Thr Gln  
35 40 45  
Met His Arg Pro Cys Ser Trp Tyr Leu Phe Ser Leu Cys Trp Gly Ala  
50 55 60  
Val Val Pro Ser Phe Leu Gly Gly  
65 70

<210> 1020  
<211> 57  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1020  
Ser Gln Leu Leu Gly Glu Ala Glu Ala Gly Glu Ser Leu Glu Pro Gly  
1 5 10 15  
Xaa Gly Asp Cys Ser Glu Pro Arg Ser His His Cys Thr Pro Val Trp

20 25 30  
Pro Thr Glu Gln Asp Ser Ile Ser Lys Lys Lys Arg Lys Gly Asp Ser  
35 40 45  
Asp Leu Val Leu Leu Asn Thr Ser Phe  
50 55

<210> 1021  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 1021  
Val Ala Gly Ala Tyr Asn Pro Ser Tyr Ser Gly Gly Gln Gly Arg Arg  
1 5 10 15  
Ile Ala

<210> 1022  
<211> 91  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1022  
Ser Gly Asn His Val Gln Asn Pro Ser Ser Gly Thr Ala Cys Cys Leu  
1 5 10 15  
Gln Pro Leu Ser Pro Gly Leu Arg Val Val Tyr Gly His Thr Trp Arg  
20 25 30  
Phe Phe Val Val Val Phe Xaa Thr Glu Phe His Ser Cys Cys Pro Gly  
35 40 45  
Trp Ser Ala Met Ala Pro Ser Arg Leu Thr Ala Thr Ser Thr Ser Trp  
50 55 60  
Phe Lys Arg Ser Gln Ala Ser Ala Ser Gln Val Val Gly Ile Thr Gly  
65 70 75 80  
Ala Cys His His Thr Trp Leu Ile Leu Tyr Phe

85

90

&lt;210&gt; 1023

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1023

Ala Glu Ile Ala Pro Leu His Ser Ser Leu Gly Asn Lys Ser Glu Thr  
1 5 10 15

Leu Ser Gln Lys Lys Asn Lys Lys Pro His Lys Asn  
20 25

&lt;210&gt; 1024

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1024

Lys Val Asn Ile Gly Glu Gly Xaa Arg Xaa Arg Ser Xaa Val Pro Val  
1 5 10 15



Arg Asn Ser Arg Val Asp Pro Arg Val Xaa Leu Leu Val Gln Ala Gly  
20 25 30

Leu Glu Leu Ala Thr Xaa Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser  
35 40 45

Gly Gly Ile Thr Gly Val Ser His Arg Ala Gln Pro  
50 55 60

<210> 1025

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1025

Ala Asn Leu Cys Ile Phe Ser Gly Asn Gly Val Leu Pro Arg Trp Pro  
1 5 10 15

Xaa Trp Ser Arg Thr Pro Asp Leu Arg Xaa Ser Thr His Pro Ser Leu  
20 25 30

Pro Lys Cys Trp Asp Tyr Arg Arg Glu Pro Leu Ser Pro Ala Xaa Phe  
35 40 45

Ser Val Phe Asn Ile Ile Phe Val Leu Ser Thr Thr Phe Gln Val Leu  
50 55 60

Xaa Val Gln

65

&lt;210&gt; 1026

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1026

Glu	Lys	Xaa	Leu	Lys	Glu	Glu	Gly	Lys	Ala	Gly	Trp	Gly	Gly	Trp	Gly
1				5				10						15	

Lys	Glu	Ala	Gly	Ser	Ala	Asp	His	Ser	Pro	Ser	Met	Ser	Cys	Phe	Leu
			20					25					30		

Lys	Met	Leu	Glu	Leu	Gly	Gln	Ala	Trp	Trp	Leu	Thr	Pro	Val	Ile	Pro
		35					40					45			

Ala	Leu	Trp	Glu	Ala	Glu	Ala	Gly	Arg	Ser	Leu	Glu	Val	Arg	Ser	Ser
	50					55					60				

Arg	Pro	Ala	Trp	Pro	Thr	Trp
65					70	

&lt;210&gt; 1027

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1027

Asn Pro Val Ser Thr Lys Asn Thr Lys Ile Ser Arg Ala Trp Trp Gln  
1 5 10 15  
Ala Pro Val Ile Pro Ala Thr Arg Glu Ala Glu Ala Gly Lys Ser Leu  
20 25 30  
Glu Pro Gly Ser Arg Lys Leu Gln Xaa Ala Lys Val Met Ser Ser Leu  
35 40 45  
His Ser Ser Leu Gly Asn Lys Ser Glu Asp Phe Val Ser Lys Lys Lys  
50 55 60  
Leu Thr Asp Phe Xaa Phe Leu Xaa  
65 70

&lt;210&gt; 1028

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1028

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Cys Leu Ser Pro Xaa  
1 5 10 15  
Gly Xaa Gly Cys Ser Glu Xaa Arg Ser Gly His  
20 25

&lt;210&gt; 1029

&lt;211&gt; 121

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1029

Asp Met Asn Ser Leu Met Met Gly Xaa Asp Lys Ile Lys Phe Lys His  
1 5 10 15

Ile Thr Pro Leu Gln Glu Gln Ser Lys Glu Val Ala Ile Arg Ile Phe  
20 25 30

Gln Gly Cys Gln Phe Arg Ser Val Glu Ala Val Gln Glu Ile Thr Glu  
35 40 45

Tyr Ala Lys Ser Ile Pro Gly Phe Val Asn Leu Asp Leu Asn Asp Gln  
50 55 60

Val Thr Leu Leu Lys Tyr Gly Val His Glu Ile Ile Tyr Thr Met Leu  
65 70 75 80

Ala Ser Leu Met Asn Lys Asp Gly Val Leu Ile Ser Glu Gly Pro Ser  
85 90 95

Phe Met Thr Arg Glu Phe Leu Lys Ser Leu Arg Xaa Leu Leu Val Thr  
100 105 110

Leu Trp Glu Pro Ser Leu Ser Leu Pro  
115 120

<210> 1030

<211> 34

<212> PRT

<213> Homo sapiens

<220>

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<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1030

Ala Glu Glu Thr Pro His Pro Trp Gln Lys Phe Arg Thr Lys Pro Gln

1 5 10 15

Gly Asp Gln Asp Thr Gly Lys Glu Ala Asp Asp Gly Cys Ala Leu Gly  
20 25 30

Gly Xaa

<210> 1031

<211> 117

<212> PRT

<213> Homo sapiens

<220>

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<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1031

Ser Glu Ser Gly Pro Arg Cys Ser Ser Pro Val Asp Thr Glu Cys Ser  
1 5 10 15

His Ala Glu Gly Ser Arg Ser Gln Gly Pro Glu Lys Ala Phe Ser Pro  
20 25 30

Ala Ser Pro Cys Ala Trp Asn Val Cys Val Thr Arg Lys Ala Pro Leu  
35 40 45

Leu Ala Ser Asp Ser Ser Ser Ser Gly Gly Ser His Ser Glu Asp Gly  
50 55 60

Asp Gln Lys Ala Ala Ser Ala Met Asp Ala Val Ser Arg Gly Pro Gly  
65 70 75 80

Arg Glu Ala Pro Arg Cys Pro Gln Trp Pro Arg Gln Lys Lys Leu Leu  
85 90 95

Ala Arg Phe Gly Phe Leu Thr Thr Gly Phe Xaa Xaa Leu Pro Cys Pro  
100 105 110

Arg Ala Lys Arg Xaa  
115

<210> 1032  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 1032  
Lys Leu Thr Asp Glu Glu Val Asp Glu Met Ile Arg Glu Ala Asp Ile  
1 5 10 15  
Asp Gly Asp Gly Gln Val Asn Tyr Glu Glu Phe Val Gln Asn Asp Asp  
20 25 30  
Cys Lys Met Lys Thr Tyr Phe Gln Leu Leu Phe Pro Pro Ser  
35 40 45

<210> 1033  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 1033  
Thr Val Cys Ile Leu Arg Lys Leu Phe Ser His Asn Met Thr Arg Leu  
1 5 10 15  
Arg Lys Phe Met Val Tyr Phe Gly Lys Asn Gln Ser Leu Gln Lys Ile  
20 25 30  
Gln Lys Thr Pro Leu Phe Val Ala Ala Ile Cys Ala His Trp Phe Gln  
35 40 45  
Tyr Pro Phe Asp Pro Ser Phe Asp Asp Val Ala Val Phe Lys Ser Tyr  
50 55 60  
Met Glu Arg Leu Ser Leu Arg Asn Lys Ala Thr Leu Lys Ile Leu Lys  
65 70 75 80  
Ala Thr Val Ser Ser Cys Gly Glu Leu Ala Leu Lys Gly Phe Phe Ser  
85 90 95  
Cys Cys Phe Glu Phe Asn Gly Trp Met Asp Leu Ala Glu Ala Gly Gly  
100 105 110  
Gly Trp Lys Met Lys Ile

115

<210> 1034  
<211> 70  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (5)  
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<220>  
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<222> (59)

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<222> (60)

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<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1034

Val Lys Ser Gly Xaa Tyr Val Val Ile Glu Val Lys Val Ala Xaa Xaa  
1 5 10 15

Tyr Gly Ile Xaa Ile Thr Cys Xaa Xaa Tyr Leu Met Thr Xaa Tyr Gln  
20 25 30

Xaa Ala Pro Pro Ser Pro Gln Tyr Arg Xaa Ile Ile Cys Met Gly Ala  
35 40 45

Xaa Xaa Asn Gly Leu Pro Leu Xaa Tyr Gln Xaa Xaa Leu Xaa Ala Leu  
50 55 60



Xaa Pro Asn Asp Tyr Thr  
65 70

<210> 1035

<211> 163

<212> PRT

<213> Homo sapiens

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<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (155)

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<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1035

Xaa Asp Ala Trp Val Arg Asp Glu Glu Trp Gly Gly His Ser Pro Arg  
1 5 10 15

Ser Pro Arg Gly Trp Asp Gln Glu Pro Ala Arg Glu Gln Ala Gly Gly  
20 25 30

Gly Trp Arg Ala Arg Arg Pro Arg Ala Arg Ser Val Asp Ala Leu Asp  
35 40 45

Asp Leu Thr Pro Pro Ser Thr Ala Glu Ser Gly Ser Arg Ser Pro Thr

50                                      55                                      60  
 Ser Asn Gly Gly Arg Arg Ser Arg Ala Tyr Met Pro Pro Arg Ser Arg  
 65                                      70                                      75                                      80  
 Ser Arg Asp Asp Leu Tyr Asp Gln Asp Asp Ser Arg Asp Phe Pro Arg  
                                     85                                      90                                      95  
 Ser Arg Asp Pro His Tyr Asp Asp Phe Arg Ser Arg Glu Arg Pro Pro  
                                     100                                      105                                      110  
 Ala Asp Pro Arg Ser His His His Arg Thr Arg Asp Pro Arg Asp Asn  
                                     115                                      120                                      125  
 Gly Ser Arg Ser Gly Asp Leu Pro Tyr Asp Gly Arg Leu Leu Glu Glu  
                                     130                                      135                                      140  
 Ala Val Xaa Lys Lys Gly Ser Asp Glu Arg Xaa Arg Pro His Xaa Glu  
 145                                      150                                      155                                      160  
 Xaa Xaa Glu

<210> 1036

<211> 30

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1036

Gly Cys Pro Pro Arg Ala Xaa Ser Leu Pro Gly Ser Pro Arg Cys Arg  
 1                                      5                                      10                                      15

Xaa Arg Cys His Thr Met Ala Phe Xaa Thr Arg Gln Phe Met  
                                     20                                      25                                      30

<210> 1037  
<211> 65  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (57)  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1037  
Thr His Phe Phe Xaa Gln His Gln Lys Leu Val Pro Leu Leu Met Ser  
1 5 10 15

Ile Met Pro Arg Ile Gln Lys Ala Tyr Xaa Val Phe Xaa Tyr Leu Val  
20 25 30

Gln Asp Leu Lys Cys Leu Val Phe Ser Leu Ile Gly Leu His Phe Lys  
35 40 45

Xaa Lys Pro Ser Arg Leu Xaa Ile Xaa Val Gly Xaa Gly Gly Gly Trp  
50 55 60

Xaa  
65

<210> 1038  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 1038  
Cys Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val  
1 5 10 15

Arg Thr Pro Ile Pro Val Pro Ala Tyr Phe Arg His Ala Glu Pro Gly  
20 25 30

Phe Ser Leu Lys Arg Pro Arg Gly Leu Ser Arg Ser Leu Pro Pro Pro  
35 40 45

Pro Pro Ala Lys Gly Ser Ile Pro Ile Ser Arg Leu Phe Pro Pro Arg  
50 55 60

Thr Pro Gly Trp His Gln Leu Gln Pro Arg Gly Cys His Ser Gly Arg  
65 70 75 80

Arg Pro Arg Asp Ser Ala Glu Pro Trp Val  
85 90

<210> 1039  
<211> 104  
<212> PRT  
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (51)

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<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (86)

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1039

Ala Ala Ala Gly Pro Gly Xaa Cys Trp Ala Phe Xaa Pro Xaa Arg Leu  
1 5 10 15

His Ala Pro Thr Ala Arg Ser Thr Tyr Ser Phe Gln Ala Arg Xaa Leu  
20 25 30

Xaa Glu Lys Glu Phe Ser Xaa Leu Ile Ser Leu Gly Thr Asp Arg Leu  
35 40 45

Leu Asp Xaa Asp Met Arg Gln Val Phe Gln Phe Xaa Pro His Pro Gly  
50 55 60

Gly Arg Cys Ser Gly Xaa Lys Asp Leu Arg Gly Val Thr Xaa Arg Leu  
65 70 75 80

Thr Glu Met Leu Pro Xaa Asn Phe Arg Ser Xaa Ala Ala Xaa Phe Leu  
85 90 95

Gly Xaa Ser Gly Ala Pro Phe Ser  
100

<210> 1040

<211> 109

<212> PRT

<213> Homo sapiens

<400> 1040

Gly Arg Trp Leu Lys Asp Gln Glu Leu Ser Pro Arg Glu Pro Val Leu  
1 5 10 15

Pro Pro Gln Lys Met Gly Pro Met Glu Lys Phe Trp Asn Lys Phe Leu  
20 25 30

Glu Asn Lys Ser Pro Trp Arg Lys Met Val His Gly Val Tyr Lys Lys

35	40	45
Ser Ile Phe Val Phe Thr His Val Leu Val Pro Val Trp Ile Ile His		
50	55	60
Tyr Tyr Met Lys Tyr His Val Ser Glu Lys Pro Tyr Gly Ile Val Glu		
65	70	75
Lys Lys Ser Arg Ile Phe Pro Gly Asp Thr Ile Leu Glu Thr Gly Glu		
85	90	95
Val Ile Pro Pro Met Lys Glu Phe Pro Asp Gln His His		
100	105	

&lt;210&gt; 1041

&lt;211&gt; 197

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1041

Ala Ser Xaa His Gln Pro Ser Leu Lys Gly Thr Lys Ala Gly Ala Pro		
1	5	10
Pro Arg Cys Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu		
20	25	30
Phe Gly Thr Arg Ser Val Ser Gly Ala Asp Gly Gly Ser Ala Ala Cys		
35	40	45
Ser Trp Lys Phe Arg Leu Gly Cys Leu Leu Gly Ala Met Glu Ser Asp		
50	55	60
Phe Tyr Leu Arg Tyr Tyr Val Gly His Lys Gly Lys Phe Gly His Glu		
65	70	75
Phe Leu Glu Phe Glu Phe Arg Pro Asp Gly Lys Leu Arg Tyr Ala Asn		
85	90	95
Asn Ser Asn Tyr Lys Asn Asp Val Met Ile Arg Lys Glu Ala Tyr Val		
100	105	110
His Lys Ser Val Met Glu Glu Leu Lys Arg Ile Ile Asp Asp Ser Glu		
115	120	125

Ile Thr Lys Glu Asp Asp Ala Leu Trp Pro Pro Pro Asp Arg Val Gly  
 130 135 140

Arg Gln Glu Leu Glu Ile Val Ile Gly Asp Glu His Ile Ser Phe Thr  
 145 150 155 160

Thr Ser Lys Ile Gly Ser Leu Ile Asp Val Asn Gln Ser Lys Asp Pro  
 165 170 175

Glu Gly Leu Arg Val Phe Tyr Tyr Leu Val Gln Asp Leu Lys Cys Leu  
 180 185 190

Val Phe Ser Leu Ile  
 195

<210> 1042

<211> 110

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1042

Ala Gly Phe Gly Ser Gln Xaa Leu Phe Val Asp Cys Cys Asp Arg His  
 1 5 10 15



Leu Thr Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr  
 20 25 30

Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile  
 35 40 45

Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala  
 50 55 60

Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Xaa  
 65 70 75 80

Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Xaa Gly Gly Met Gln  
 85 90 95

Ile Phe Xaa Lys Thr Leu Thr Gly Lys Thr Xaa Thr Leu Glu  
 100 105 110

<210> 1043

<211> 109

<212> PRT

<213> Homo sapiens

<400> 1043

Leu His Gln Pro Ala Lys Met Ala Met Gln Ala Ala Lys Arg Ala Asn  
 1 5 10 15

Ile Arg Leu Pro Pro Glu Val Asn Arg Ile Leu Tyr Ile Arg Asn Leu  
 20 25 30

Pro Tyr Lys Ile Thr Ala Glu Glu Met Tyr Asp Ile Phe Gly Lys Tyr  
 35 40 45

Gly Pro Ile Arg Gln Ile Arg Val Gly Asn Thr Pro Glu Thr Arg Gly  
 50 55 60

Thr Ala Tyr Val Val Tyr Glu Asp Ile Phe Asp Ala Lys Asn Ala Cys  
 65 70 75 80

Asp His Leu Ser Gly Phe Asn Val Cys Asn Arg Tyr Leu Val Val Leu  
 85 90 95

Tyr Tyr Asn Ala Asn Arg Ala Phe Gln Lys Met Asp Thr  
 100 105

<210> 1044

<211> 16

<212> PRT

<213> Homo sapiens

<400> 1044

Lys Leu Ile Gln Val Gly Lys Leu Asp Arg Thr Phe His Leu Ser Tyr  
1 5 10 15

<210> 1045

<211> 100

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<400> 1045  
Ser Ser Xaa Pro Thr Pro Pro Ser Ser Cys Leu Xaa Pro Pro Gly Xaa  
1 5 10 15

Arg Pro Xaa Asp Ser Thr Xaa Val Pro Ala Asn Ser Met Arg Leu Lys  
20 25 30

Tyr Gln His Thr Gly Xaa Val Leu Asp Cys Xaa Phe Tyr Gly Pro Xaa  
35 40 45

Xaa Ala Trp Ser Xaa Gly Leu Asp His Gln Leu Lys Met His Asp Leu  
50 55 60

Thr Leu Ile Lys Lys Ile Ser Trp Thr His Xaa Ala Leu Xaa Asp Val  
65 70 75 80

Leu Asn Thr Val Arg Ser Glu Leu Xaa Trp Xaa Trp Lys Leu Gly Leu  
85 90 95

Ala Ser Xaa Pro  
100

<210> 1046

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

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<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1046

Phe Ile Ser Val Ser Glu Lys Ser Lys Asp Arg Gly Ser Asn Thr Ile  
1 5 10 15

Gly Ala Arg Leu Asn Arg Val Glu Asp Lys Val Thr Gln Leu Asp Gln  
20 25 30

Arg Leu Ala Leu Ile Thr Asp Met Leu His Gln Leu Leu Ser Leu His  
35 40 45

Gly Gly Ser Thr Pro Glu Pro Thr Val Arg Gly Ala Pro Xaa Xaa Asn  
50 55 60

Pro Ser Pro Ser Pro Ser Ser Gln Pro Asn Thr Gln Lys Gly Thr Ala  
65 70 75 80

Thr Phe Pro Cys Gln Leu Leu Ser Arg Arg Glu Val Thr Val Pro Thr

85

90

95

Gln Asp Arg Gly Ser Phe Trp Ala Leu His Arg Ile Glu Xaa Asn Asn  
 100 105 110

Leu Trp

<210> 1047

<211> 92

<212> PRT

<213> Homo sapiens

<220>

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<222> (32)

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<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1047

Asp Arg Phe Ser Gly Ser Lys Ser Ala Ser Thr Ala Ser Leu Thr Ile  
 1 5 10 15

Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Xaa  
 20 25 30

Thr Ser Ser Ile Ser Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val  
 35 40 45

Leu Val Gln Pro Lys Ala Asn Pro Thr Val His Ser Cys Phe Pro Pro

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<210> 1048
<211> 91
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<221> SITE  
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<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1048  
 Arg Gly Arg Gly Lys Arg Xaa Pro Asp Xaa Lys Pro Pro Ala Leu Pro  
   1                  5                  10                  15  
 Arg Pro Ile Xaa Asn Leu Glu Val Glu Phe Thr Lys Ile Phe Xaa Xaa  
                   20                  25                  30  
 Asn Gly Met Gly Arg Ile Xaa Xaa Trp Glu Lys Val Cys Tyr Met Leu  
           35                  40                  45  
 Pro Xaa Asn Ser Gly Xaa Lys Tyr Val Lys Trp Lys Xaa Glu Ile Xaa  
       50                  55                  60  
 Pro Thr Trp Asp Glu Gly Cys Gly Ser Cys Thr Gly Xaa Leu Pro Lys  
   65                  70                  75                  80  
 Arg Xaa Pro Pro Trp Ala Pro Gly Gly Met Xaa

85

90

&lt;210&gt; 1049

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1049

Pro Gly Gln Ser Pro Glu Leu Gln Thr Met Ser Val Ser Phe Leu Ile  
1 5 10 15

Phe Leu Pro Val Leu Gly Leu Pro Trp Gly Val Leu Ser Gln Val Gln  
20 25 30

Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln Thr Leu Ser  
35 40 45

Leu Thr Cys Ala Ile Ser Gly Asp Thr Val Ser Arg Asn Ser Ala Gly  
50 55 60

Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu Gly  
65 70 75 80

Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala Val Ser Val  
85 90 95

Lys Ser Arg Ile Thr Ile Asn Ala Asp Ser Thr Lys Asn Gln Phe Ser  
100 105 110

Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Leu Tyr Tyr Cys  
115 120 125

Ala Arg Asp Arg Gly Ser Trp Ser Asp Glu Ala Glu Gly Leu Pro Pro  
130 135 140

Arg Tyr Phe Tyr Tyr  
145

&lt;210&gt; 1050

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 1050

Ala Gln Leu Leu Thr Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val  
 1 5 10 15

Ala Ala Ala Thr Ser Ala His Ser Gln Val Gln Leu Val Gln Ser Gly  
 20 25 30

Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala  
 35 40 45

Ser Gly Tyr Thr Phe Thr Ser Tyr Asp Ile Asn Trp Val Arg Gln Ala  
 50 55 60

Thr Gly Gln Gly Leu Glu Trp Val Gly Trp Met Asn Pro Asn Ser Ala  
 65 70 75 80

Asn Thr Gly Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg  
 85 90 95

Asn Thr Ser Ile Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser  
 100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Xaa Arg Arg Trp Glu Leu  
 115 120 125

Leu Gly Met Met Trp Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val  
 130 135 140

Thr Val  
 145

&lt;210&gt; 1051

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1051

Gly Arg Gly Ile Ser Gly Leu Leu Phe Leu Ser Ser Thr Ile Met Gly  
 1 5 10 15

Ser Thr Ala Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly Val Cys  
 20 25 30

Gly Glu Val Gln Leu Val His Ala Gly Gly Glu Met Arg Lys Ala Arg  
 35 40 45

Gly Val Ser Glu Asp Leu Leu  
 50 55

<210> 1052  
<211> 144  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (120)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (134)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1052  
Thr Met Ala Trp Thr Pro Leu Leu Phe Leu Thr Leu Leu Leu His Cys  
1 5 10 15

Thr Gly Ser Leu Ser Gln Leu Val Leu Thr Gln Ser Pro Ser Ala Ser  
                   20                  25                  30

Ala Ser Leu Gly Ala Ser Val Xaa Leu Thr Cys Thr Leu Ser Ser Gly  
                   35                  40                  45

His Xaa Asp Tyr Ala Ile Ala Trp His Gln Gln Gln Pro Glu Lys Gly  
                   50                  55                  60

Pro Arg Tyr Leu Leu Xaa Leu Asn Thr Asp Gly Ser His Arg Lys Gly  
                   65                  70                  75                  80

Asp Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Ala Glu Arg  
                   85                  90                  95

Tyr Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Xaa Ala Asp Tyr Tyr  
                   100                  105                  110

Cys Gln Asn Trp Gly Phe Gly Xaa Val Phe Gly Xaa Arg Asp Gln Xaa  
                   115                  120                  125

Glu Arg Pro Lys Ser Xaa Gln Gly Cys Pro Leu Gly Gln Ser Val Pro  
                   130                  135                  140

<210> 1053

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1053

Gly Thr Ser Ser Pro Ser Leu Ala Glu Asp Pro Phe Gln Gly Gly Gln  
   1                  5                  10                  15

Val Cys Ala Pro Ser Arg Ala Ile Gln Xaa Ile Cys Leu Pro Ser Met  
                   20                  25                  30

Tyr Asn Asp Pro Gln Phe Gly Thr Ser Cys Glu Ile Thr Gly Leu Trp  
                   35                  40                  45

Lys Lys Glu Phe

50

&lt;210&gt; 1054

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1054

Gln Val Gly Ala Ala Val Ala Met Thr Arg Gly Asn Gln Arg Glu  
1 5 10 15

Leu Ala Arg Gln Lys Asn Met Lys Lys Gln Ser Asp Ser Val Lys Gly  
20 25 30

Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala Arg Lys Gln Arg Asp  
35 40 45

Ser Glu Ile Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys Lys Glu  
50 55 60

Glu Pro Lys  
65

&lt;210&gt; 1055

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1055

Glu Ala Glu Xaa Lys Met Ser Ser Tyr Ala Phe Phe Val Gln Thr Cys  
1 5 10 15

Arg Glu Glu His Lys Lys Lys His Pro Asp Ala Ser Val Asn Phe Ser  
20 25 30

Glu Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Ala Lys  
35 40 45

Glu Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala Arg Tyr  
50 55 60

Glu Arg Glu Met Lys Thr Tyr Ile Pro Pro Lys Gly Glu Thr Lys Lys

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<210> 1057
<211> 118
<212> PRT
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<213> Homo sapiens

<400> 1057

Lys Leu Arg Gln Ala Phe Gln Gly Asp Ser Ile Pro Val Phe Asp Leu  
1 5 10 15  
Leu Ile Leu Gly Val Gly Pro Asp Gly His Thr Cys Ser Leu Phe Pro  
20 25 30  
Asp His Pro Leu Leu Gln Glu Arg Glu Lys Ile Val Ala Pro Ile Ser  
35 40 45  
Asp Ser Pro Lys Pro Pro Pro Gln Arg Val Thr Leu Thr Leu Pro Val  
50 55 60  
Leu Asn Ala Ala Arg Thr Val Ile Phe Val Ala Thr Gly Glu Gly Lys  
65 70 75 80  
Ala Ala Val Leu Lys Arg Ile Leu Glu Asp Gln Glu Glu Asn Pro Leu  
85 90 95  
Pro Ala Ala Trp Ser Ser Pro Thr Pro Gly Asn Cys Ala Gly Leu Gly  
100 105 110  
Arg Gly Gly Arg Arg Phe  
115

<210> 1058

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (100)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1058  
Val Xaa Xaa Glu Pro His Gly Xaa Thr Leu Val Phe Ala Arg His Gly  
1 5 10 15  
Arg Glu Arg Leu Gly Xaa Gly Asp Gly Ala Ala Gln Glu Gly Pro Tyr  
20 25 30  
Gly Arg Pro Ala Thr Ser Lys Gln Ala Ile Leu Ala Ala Gln Arg Leu  
35 40 45  
Gly Glu Asp Val Glu Thr Ser Asn Lys Trp Ala Ala Gly Xaa Asn Lys  
50 55 60  
Gln His Ser Ile Thr Lys Asn Thr Ala Lys Leu Asp Arg Xaa Thr Glu  
65 70 75 80  
Cys Cys Thr Met Thr Gly Asp Pro Glu Val Xaa Gln Val Ile Gln Gln  
85 90 95  
Val Gly Xaa Xaa Arg Ala Tyr Thr  
100

<210> 1059

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1059

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Ala Ala Ala Leu Glu Leu  
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Val Leu Pro Leu Arg  
20 25 30

Glu Ser Asn Cys Ile Pro Ala Ser Val Ser Phe Leu Cys Val Ile Ser  
35 40 45

<210> 1060

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1060

Arg Asn Val Thr His Ile Asp Gln Ala Leu Gln Glu Ala His Arg Val  
1 5 10 15

Leu Lys Pro Gly Gly Arg Phe Leu Cys Leu Glu Phe Ser Gln Val Asn



20 25 30

Asn Pro Leu Ile Ser Arg Leu Tyr Asp Leu Tyr Ser Phe Gln Val Ile  
35 40 45

Pro Val Leu Gly Glu Val Ile Ala Gly Asp Trp Lys Ser Tyr Gln Tyr  
50 55 60

Leu Val Glu Ser Ile Arg Arg Phe Pro Xaa Xaa Glu Glu Phe Xaa Asp  
65 70 75 80

Met Ile Glu Asp Ala Gly Phe His Lys Val Thr Tyr Glu Ser Leu Thr  
85 90 95

Ser Gly Xaa Val  
100

<210> 1061

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (134)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1061

Phe	Gly	Thr	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg
1				5				10				15			

Val	Ala	Xaa	Val	Xaa	Val	Ser	Ser	Val	Ser	Arg	Leu	Leu	Xaa	Arg	Xaa
			20					25					30		

Xaa	Pro	Xaa	Leu	Gly	Arg	Ser	Met	Ser	Ser	Gly	Ala	His	Gly	Glu	Glu
		35					40					45			

Xaa	Ser	Xaa	Xaa	Met	Trp	Lys	Xaa	Leu	Thr	Phe	Phe	Val	Ala	Leu	Pro
	50					55					60				

Gly	Val	Xaa	Xaa	Xaa	Xaa	Leu	Xaa	Val	Tyr	Leu	Lys	Ser	His	His	Gly
65						70				75					80

Glu	His	Glu	Xaa	Pro	Glu	Phe	Ile	Val	Tyr	Pro	Tyr	Leu	Arg	Ile	Arg
				85					90					95	

Xaa	Lys	Xaa	Phe	Pro	Trp	Gly	Asp	Xaa	Xaa	His	Thr	Phe	Xaa	His	Asn
			100					105					110		

Pro	Tyr	Val	Xaa	Pro	Xaa	Pro	Leu	Xaa	Thr	Glu	Xaa	Tyr	Xaa	Glu	Xaa
		115					120					125			

Leu	Xaa	Ile	Thr	Gly	Xaa	Thr	Gly	Pro
	130					135		

&lt;210&gt; 1062

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1062

Gly Leu Xaa Phe Xaa Gly Met His Xaa Met Ala Xaa Thr His Trp Pro  
 1 5 10 15

Cys Pro Trp Pro Ala Leu Met Thr Arg Trp Thr Val Ser Leu Arg Ala  
 20 25 30

Pro Xaa Leu Ala Gln Leu Ser Asp Val Ala Met His Ser Leu Gly Xaa  
 35 40 45

Ala Phe Ile Tyr Xaa Gln Thr Asp Asp Ile Xaa Asp Val

50

55

60

&lt;210&gt; 1063

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1063

Thr	Tyr	Xaa	Pro	Xaa	Ser	Xaa	Gly	Ile	Cys	Arg	Val	Ser	Leu	Xaa	Leu
1				5					10					15	

Pro	Gln	Gln	Trp	Xaa	Thr	Phe	Ala	Lys	Ile	Trp	Tyr	Ile	Leu	Asp	Gly
			20					25					30		

Lys	Met	Xaa	Pro	Pro	Gly	Lys	Leu	Ala	Ala	Met	Xaa	Ser	Ile	Arg	Leu
		35					40					45			

Xaa	Gly	Leu	His	Xaa	Pro	Ala	Tyr	His	Ala	Leu	Thr	Asp	Cys	Gly	Asp
	50					55					60				

His	Val	Cys	Tyr
	65		

&lt;210&gt; 1064

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1064

Arg	Asp	Ile	Glu	Pro	Gly	Glu	Glu	Ile	Ser	Xaa	Tyr	Tyr	Gly	Asp	Gly
1				5					10					15	

Phe	Phe	Gly	Glu	Asn	Asn	Glu	Phe	Cys	Glu	Cys	Tyr	Thr	Cys	Glu	Arg
			20					25					30		

Arg	Gly	Thr	Gly	Ala	Phe	Lys	Ser	Arg	Val	Gly	Leu	Pro	Ala	Pro	Ala
		35					40					45			

Pro	Val	Ile	Asn	Ser	Lys	Tyr	Gly	Leu	Arg	Glu	Thr	Asp	Lys	Arg	Leu
	50					55					60				

Asn	Arg	Leu	Lys	Lys	Leu	Gly	Asp	Ser	Ser	Lys	Asn	Ser	Asp	Ser	Gln
65					70					75					80

Ser	Val	Ser	Ser	Asn	Thr	Asp	Ala	Asp	Thr	Thr	Gln	Glu	Lys	Asn	Asn
				85					90					95	

Ala	Thr	Ser	Asn	Arg	Lys	Ser	Ser	Val	Gly	Val	Lys	Lys	Asn	Ser	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

100	105	110
Ser Arg Thr Leu Thr Arg Gln Ser Met Ser Arg Ile Pro Ala Ser Ser		
115	120	125
Asn Ser Thr Ser Ser Lys Leu Asn Ser Tyr Lys		
130	135	

<210> 1065  
<211> 78  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (6)  
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<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (26)  
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<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>



<221> SITE  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (62)  
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<220>  
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<220>  
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 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1065

Gly Thr Cys His Xaa Xaa Pro Trp Gly Pro Met Glu Pro Xaa Lys Arg  
 1 5 10 15

Pro Trp Arg Leu Leu Met Asp Thr Phe Xaa Cys Lys Leu Leu Pro Trp  
 20 25 30

Gly Val Lys Val Xaa His His Pro Xaa Trp Xaa Leu Gln Asp Arg Val  
 35 40 45

Ser Glu Glu Thr Trp Val Xaa Trp Glu Lys Arg Gln Gln Xaa Ala Xaa  
 50 55 60

Gly Pro Thr Leu Ser Xaa Glu Leu Leu Gln Xaa Leu Arg Glu  
 65 70 75

<210> 1066  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1066

Leu Glu Arg His His Leu Glu Phe Gly Lys Thr Leu Leu Arg Asp Glu  
 1 5 10 15

Ser Leu Asn Ile Phe Gln Asn Leu Asn Arg Arg Gln His Glu His Ala  
20 25 30  
Ile His Met Met Asp Ile Ala Ile Ile Ala Thr Asp Leu Ala Leu Tyr  
35 40 45  
Phe Lys Lys Arg Thr Met Phe Gln Lys Ile Val Asp Gln Ser Lys Thr  
50 55 60  
Tyr Glu Ser  
65

<210> 1067  
<211> 98  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1067

Ser	Ala	Arg	Xaa	Trp	Asn	Thr	Xaa	Trp	Asn	Pro	Lys	Asn	Ser	Asp	Ser
1				5				10					15		

Gly	Lys	Tyr	Trp	Gly	Lys	Ser	Trp	Leu	Pro	Xaa	Asn	Tyr	Thr	Leu	Val
			20					25					30		

Asp	Met	Lys	Ile	Xaa	Phe	Gly	Val	Asp	Ile	Thr	Thr	Lys	Glu	Met	Val
		35					40					45			

Leu	Ala	Asp	Asp	Ser	Trp	Arg	Leu	Ala	Ile	Thr	Ser	Ile	Glu	Ala	Asn
	50					55					60				

Ser	Lys	Asp	Xaa	Xaa	Ser	Tyr	Trp	Xaa	Leu	Lys	Glu	Val	Thr	Pro	Glu
65					70					75					80

Gly	Leu	Xaa	Met	Val	Lys	Lys	Ser	Phe	Glu	Ala	Gly	His	Gly	Asp	Ser
				85					90					95	

Cys Leu

<210> 1068

<211> 167

<212> PRT

<213> Homo sapiens

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Arg Leu Leu Val Leu Val Pro Pro Ser Lys Pro Glu Cys Gly Ile Glu  
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Gly Glu Thr Ile Ile Gly Asn Asn Ile Gln Leu Thr Cys Gln Ser Lys  
35 40 45

Glu Gly Ser Pro Thr Pro Pro Val Gln Leu Glu Arg Ser Tyr Asn Ile

50                      55                      60  
 Leu Asn Gln Xaa Xaa Pro Leu Ala Pro Pro Thr Ser Gly Ser Thr Cys  
 65                      70                      75                      80  
 Ser Pro Leu Lys Asn Ile Ser His Arg Thr His Xaa Val Tyr Xaa Leu  
                     85                      90                      95  
 Val Pro Pro Ser Asn Lys Xaa Gly Asn Xaa Phe Leu Gln Leu His Gly  
                     100                      105                      110  
 Gly Leu Xaa Asn Leu Pro Pro Ile Xaa Phe Gly Pro Phe Phe Xaa Leu  
                     115                      120                      125  
 Pro Gly Gly Val Phe Phe Phe Thr Pro Leu Ile Xaa Xaa Xaa Xaa Xaa  
                     130                      135                      140  
 Leu Xaa Xaa Xaa Xaa Pro Gly Glu Arg Xaa Asn Pro Xaa Lys Lys Gly  
 145                      150                      155                      160  
 Lys Pro Gly Thr Xaa Thr Leu  
                     165

&lt;210&gt; 1069

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1069

Val Leu Pro Pro Leu Leu Ile Met Leu Val Ile Tyr Ile Lys Ile Phe  
 1                      5                      10                      15  
 Leu Val Ala Cys Arg Gln Leu Gln Arg Thr Glu Leu Met Asp His Ser  
                     20                      25                      30  
 Arg Thr Thr Leu Gln Arg Glu Ile His Ala Ala Lys Ser Leu Ala Met  
                     35                      40                      45  
 Ile Val Gly Ile Phe Ala Leu Cys Trp Leu Pro Val His Ala Val Asn  
                     50                      55                      60  
 Cys Val Thr Leu Phe Gln Pro Ala Gln Gly Lys Asn Lys Pro Lys Trp  
 65                      70                      75                      80  
 Ala Met Asn Met Ala Ile Leu Leu Ser His Ala Asn Ser Val Val Asn  
                     85                      90                      95  
 Pro Ile Val Tyr Ala Tyr Arg Asn Arg Asp Phe Arg Tyr Thr Phe His  
                     100                      105                      110

Lys Ile Ile Ser Arg Tyr Leu Leu Cys Gln Ala Asp Val Lys Ser Gly  
115 120 125

Asn Gly Gln Ala Gly Val Gln Pro Ala Leu Gly Val Gly Leu  
130 135 140

<210> 1070

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Ala Glu Arg Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Xaa Ile  
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Arg Ala Arg Gly Gln Xaa Pro Leu Xaa Leu Gln Xaa His Xaa Arg Trp  
20 25 30

Leu His Xaa Xaa His Arg Xaa Pro Gly Ala Arg Xaa  
35 40

<210> 1071

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Met Glu Ala Ala Asp Tyr Arg Xaa Ala Ser Ser Gln Gln Gly Leu Ala  
1 5 10 15

Tyr Ala Thr Glu Ala Val Tyr Glu Ser Ala Glu Ala Pro Gly His Tyr  
20 25 30



Pro Ala Glu Asp Ser Thr Tyr Asp Glu Tyr Glu Asn Asp Leu Gly Ile  
35 40 45  
Thr Ala Val Ala Leu Tyr Xaa Tyr Gln Ala Ala Gly Asp Asp Glu Ile  
50 55 60  
Ser Phe Xaa Pro Asp Asp Ile Ile Thr Asn Ile Glu Met Ile Xaa Asp  
65 70 75 80  
Gly Trp Trp Arg Gly Val Cys Lys Gly Arg Phe Arg Glu Leu Ala Phe  
85 90 95

Ser

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